

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

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16/11/11

COMMONWEALTH OF VIRGINIA Department of Environmental Quality Northern Virginia Regional Office

STATEMENT OF LEGAL AND FACTUAL BASIS

Covanta Fairfax, Inc. 9898 Furnace Road Lorton, Virginia 22079

Permit No. NRO71920

Title V of the 1990 Clean Air Act Amendments required each state to develop a permit program to ensure that certain facilities have federal Air Pollution Operating Permits, called Title V Operating Permits. As required by 40 CFR Part 70 and 9 VAC 5 Chapter 80, Covanta Energy, Inc. has applied for a renewal of the Title V Operating Permit for its Covanta Fairfax facility. The Department has reviewed the application and has prepared a draft Title V Operating Permit.

W/1/A1

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Air Permit Manager:	James B. LaFratta	Date: 6/8/20/
Regional Director:	Thomas A Faha	Date: <u> </u>

FACILITY INFORMATION

Permittee
Covanta Fairfax, Inc
445 South Street
Morristown, NJ. 07960

Facility
Covanta Fairfax, Inc.
9898 Furnace Road
Lorton, Virginia 22079

County-Plant Identification Number: 51-059-00560

SOURCE DESCRIPTION

NAICS Code: NAICS 562213 - Municipal Waste Combustion

Covanta Fairfax, Inc. operates a large municipal solid waste (MSW) combustion facility with energy recovery. The facility maintains four 750 ton per day (nominal) waste combustion units with integrated reciprocating grate stokers and water wall boilers. Each combustor is also equipped with two natural gas-fired auxiliary burners that are used during startup, shutdown, and malfunction, and to provide flame stabilization. Products of combustion from each combustor are controlled by good combustion practices, ammonia injection (selective non-catalytic reduction), a combination of spray dryer and fabric filter, and activated carbon injection to reduce nitrogen oxides (NO_x), carbon monoxide (CO), particulate matter (PM and PM-10), acid gases (sulfur dioxide and hydrogen chloride), metals (cadmium, lead and mercury) and complex organics (dioxins/furans), among others. Steam generated by the boilers drive turbines that generate electricity for sale to the local electric company.

The facility is located in the Fairfax County, which is part of the Northern Virginia Ozone Nonattainment Area. The facility is a Title V major source of sulfur dioxide, nitrogen oxides (NOx), carbon monoxide, hazardous air pollutants (hydrogen chloride), and CO2 equivalent emissions. The facility has the potential to emit (PTE) more than 100 tons per year (tpy) of nitrogen oxides (NO_x) and is considered a major stationary source for purposes of non-attainment new source review (9 VAC 5-80-2000, et seq.). The facility operates under the Prevention of Significant Deterioration (PSD) Permit dated January 12, 1987, as amended February 18, 1988 (Appendix A) and a Consent Agreement dated April 3, 1998, implementing Reasonably Available Control Technology (RACT) can be found in Appendix B. The requirements of the RACT consent agreement have been fulfilled. The facility is also subject to state Rule 4-54 (9 VAC 5-40-7950 et seq.) of the Virginia Air Pollution Control Board's Regulations for the Control and Abatement

of Air Pollution. This rule implements various emissions limitations, operating, compliance, and recordkeeping requirements established by the Emissions Guidelines, Subpart Cb. Rule 4-54 is the approved Clean Air Act Section 111(d)/129 plan for Large Municipal Waste Combustor (MWC) Units regulated under 40 CFR 62, Subpart VV sections 62.11640 through 62.11642 and was approved on October 29, 2004.

COMPLIANCE STATUS

A full compliance evaluation of this facility, including a site visit, was last conducted August 14, 2014. Based on these compliance evaluations, the facility has not been found to be in violation of any state or federal applicable requirements at this time.

EMISSION UNIT AND CONTROL DEVICE IDENTIFICATION

The emissions units at this facility consist of the following:

					-		
Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
001-01 through 004-01			343.75	SNCR (ammonia injection), 2000		NO _x	DCD is a week dated
	I COMPLICTOR WITH BUOTEIN	MMBtu/hr Design maximum rated heat input	Flakt spray dryer, 02/88	1,4,7, 10	SO ₂ and MWC acid gases	PSD permit dated January 12, 1987 as amended February 18, 1988. NO _x RACT Consent Agreement dated	
			Flakt fabric filter baghouse, 02/88	3,6,9, 12	MWC metals, PM/PM-10		
			(each unit)	activated carbon injection system		Mercury	April 3, 1998.
001-02 A,B through 004-02 A,B	001 - 004	Zurn natural gas fired auxiliary burners (02/88)	103.125 MMBtu/hr (each unit) Design maximum rated heat input	same	same	Same	same
005	N/A	Cold Solvent Degreasers	N/A	N/A			
IU-06		Ash Removal	NA	NA	NA	NA	NA
IU-10		Emergency Diesel Generator	435 Horsepower	NA	NA	NA	NA

^{*}The size/rated capacity is provided for informational purposes only, and is not an applicable requirement.

EMISSIONS INVENTORY

A copy of the 2015 annual emission statement is attached as Appendix C. Emissions are summarized in the following table.

2015 Actual Emissions

Criteria or Hazardous Air Pollutant	Tons per Year
CO	21.11
NO _x	1,647.88
PM-10	14.06
PM-2.5	0.13
SO ₂	121.62
VOC	6.06
Lead	0.04
Hydrogen Chloride	52.85
Hydrogen Fluoride	0.65

EMISSION UNIT APPLICABLE REQUIREMENTS - 001-01 through 004-02

There are two primary regulatory mechanisms that form the basis of the majority of applicable requirements in this permit. They are the PSD permit issued January 12, 1987 (amended February 18, 1988) and Virginia State Air Pollution Control Board Rule 4-54 – Emissions Standards for Large Municipal Waste Combustors.

Rule 4-54, was promulgated on August 4, 1999, to carry out EPA's mandate to regulate existing (construction commenced on or before September 20, 1994) large MWCs as defined by Emission Guideline, Subpart Cb. EPA took direct final action approving this rule on October 29, 2004 making it federally enforceable. Rule 4-54 establishes emission limits, and monitoring, operating and recordkeeping requirements that are either more stringent than or additional to the existing PSD permit. It includes concentration-based emission limits for several criteria and hazardous air pollutants, establishes operating parameter limits on steam production, fabric filter inlet temperature and mercury injection system activated carbon feed. It also requires continuous and periodic compliance demonstration mechanisms including continuous emissions monitoring, operating parameter monitoring, performance testing, and record keeping and reporting.

Title V permit conditions reflect the more stringent requirements, the additional requirements and attempts to merge similar Rule 4-54, and PSD permit limits through the streamlining process. The citation(s) of each condition reflect the underlying requirements as appropriate.

Limitations

Control equipment requirements were obtained from the PSD permit and presented in Conditions 1, 2, 3.

MSW and natural gas are the only fuels permitted to be combusted at this facility. DEQ has interpreted the PSD permit, its supporting documents and considered practical implications to develop a definition of acceptable MSW, as provided in Condition 4. When developing this Condition, DEQ made use of the language found in the definition of MSW contained in Rule 4-54. The operating permit definition identifies materials that are reasonably considered by DEQ to be MSW. The definition also identifies waste streams DEQ believes are not MSW and were not evaluated for their emissions characteristics when the decision to issue the original PSD permit was made. These materials are not currently considered acceptable wastes that can be processed by the facility and have therefore been excluded from the definition of MSW. DEQ does however acknowledge the practical implications of excluding from the definition of MSW materials that are collected from businesses in the region that fall within the excluded category. Therefore, the operating permit leaves room for the permittee to consider expanding the definition, provided certain steps are followed. Those steps are described in Condition 4. Rules applicable to operating permit changes will be followed as provided in 9 VAC 5-80-190.

DEQ has interpreted the PSD, its supporting documents and considered practical implications to establish an effective MWC unit charging rate and the annual tonnage limit as shown in Conditions 6 and 7. DEQ recognizes the PSD permit's intent to acknowledge the importance of the variable energy content (higher heating value (HHV)) and/or moisture content of the waste stream relevant to the charging rate and tonnage limit. The PSD permit unfortunately does not clearly define an approach to make this connection. In the absence of an approach, DEQ has established effective limits based on a moisture correction of 18% by weight (e.g., 750 tpd x 1.18 = effective charging rate of 885 tons, and 1,095,000 tpy x 1.18 = effective annual tonnage limit of 1,292,100 tons). This moisture content was obtained from the Camp, Dresser and McKie document supporting the original PSD permit application. Conditions 7 and 8 provides instructions to follow if the permittee chooses to obtain approval for alternative moisture corrections. Appendix A has been reserved to accommodate alternative values or approaches that are approved and do not trigger significant Title V modification.

Condition 21 establishes a compliance demonstration approach to Condition 6 and 7 utilizing waste measured on truck scales, as DEQ believes is implied by the PSD permit. DEQ however recognizes the value of using steam and other factors to reflect actual waste processed and have, in this condition, provided an avenue for the permittee to pursue establishing such an approach. Appendix B is reserved to accommodate approved approaches that do not trigger significant Title V modification.

Condition 12, Proper Operation and Good Combustion Practices (GCP), is essentially a control requirement for NO_x, CO and VOC, and complex organics (specifically dioxin/furans), that blends the intent of PSD permit Condition 10 and 16 to control these emissions by good furnace design and proper operation, with Rule 4-54 requirements that serve the same purpose. This is not intended to define or emulate the methods to demonstrate GCP as prescribed by EPA in the background documents associated with the Emission Guidelines/NSPS for large MWCs. Specific GCP terms for this permit are defined quantitatively by achieving the operating parameter and emissions requirements indicated in the condition. Boiler roof top temperature above 1135 °F is authorized as a surrogate to furnace combustion temperature as referenced in the DEQ letter to Covanta identified as 93-03, dated October 1, 1993. A 4-hour block averaging period has been added to the furnace temperature requirement to coincide with the averaging periods applicable to parameters that are closely associated with or reflective of furnace conditions (e.g., CO emissions and unit load). The furnace temperature requirement does not apply when only auxiliary fuel is being fired or during periods of start-up and shutdown and malfunction.

The following Virginia Administrative Codes (VAC) that have specific emission requirements have been determined to be applicable:

Concentration based emission limits were obtained from Rule 4-54 and are provided in Condition 13.

Mass emission limits provided in PSD permit Conditions 6 and 7 are reflected in Conditions 15 and 16, with the exception of arsenic, antimony, beryllium and hydrogen bromide. These four hazardous air pollutants were established as limits in the PSD permit under the state toxics program that is not federally enforceable. As a result, the limits for these four pollutants and their attendant monitoring, recordkeeping and reporting requirements have been moved to the State-only Requirements section of the operating permit.

Sulfuric acid and hydrogen fluoride limits are retained in Condition 16 because the facility is a major PSD source and significance levels exist for these pollutants, under the PSD pre-construction review permit program.

The visible emission limit in Condition 17 reflects the more stringent Rule 4-54 limit versus PSD Condition 20. The fugitive emission limit in Condition 18 reflects Rule 4-54 at 9 VAC 5-80-8070.

Requirements limiting municipal waste combustor unit load, fabric filter inlet temperature, activated carbon feed and duration of start-up/shutdowns obtained from Rule 4-54 are also provided in this 'Limitations' section.

Parametric Monitoring

The monitoring requirements provided in this section (Conditions 20 - 28) mirror those obtained from the PSD permit or Rule 4-54. Some requirements contained in the PSD permit have been streamlined by the more relevant or more stringent requirements of Rule 4-54 and are not included.

Continuous Emissions Monitoring

The continuous emissions monitoring (CEM) requirements provided in this section (Conditions 30 – 57) mirror those obtained from the PSD permit or Rule 4-54.

A provision to Conditions 41, 48, and 55 was added to require DEQ and Environmental Protection Agency (EPA) Region III approval of any alternative system used to provide substitute CEM emissions data during periods of CEM system breakdown, repair, calibration checks and zero and span adjustments. EPA must approve the use of any alternative monitoring system used for the purpose of demonstrating compliance. See the August 18, 2003 state plan (111(d)112 plan) submittal, Part 1-5, Discretionary Authority, relating to major changes to monitoring requirements.

Compliance Assurance Monitoring

An analysis was performed to determine the applicability of Compliance Assurance Monitoring (CAM), 40 CFR Part 64, to the MWCs. 40 CFR §64.2(b) provides an exemption from CAM requirements for "emission limitations or standards proposed by the Administrator after November 15, 1990, pursuant to Section 111 or 112 of the Act". Municipal waste combustors are subject to the performance standards provided in 40 CFR 60 Subpart Cb (as incorporated into SAPCB Regulations Rule 4-54) which were promulgated post November 15, 1990. The monitoring standards associated with these rules are consistent with the requirements of the CAM program.

Recordkeeping

The recordkeeping requirements provided in this section (Conditions 58 – 66) mirror those obtained from the PSD permit or Rule 4-54.

Performance Testing

Annual performance test requirements provided in this section (Conditions 67 - 80) mirror those obtained from the PSD permit and Rule 4-54. These tests, at a minimum, along with other monitoring requirements in this permit as derived from Rule 4-54, serve to satisfy periodic monitoring for all regulated pollutants.

No annual performance test requirements are provided for VOC, the only regulated pollutant for which an annual performance test or continuous emissions monitoring is not required. Other conditions, such as Condition 2, serve to periodically ensure that VOC emissions are maintained at levels consistent with the results of the initial performance test conducted following issuance of the original PSD permit.

A table of test methods has been included in the permit in the event testing is performed for pollutants for which no annual performance test is required. The Department of Environmental Quality (DEQ) and EPA have authority to require testing not included in this permit if necessary to determine compliance with an emission limit or standard.

Reporting

The reporting requirements provided in this section (Conditions 81-67) mirror those obtained from the PSD permit or Rule 4-54. Submittal dates for the Emissions and Parametric Monitoring report (Condition 81) and Compliance/Deviation report (Condition 82) in this section have been tied to the submittal dates of the semi-annual monitoring reports required in Condition 122, the annual compliance certification required in Condition 123 and permit deviation report required in Condition 124 for simplicity. The permittee may combine these reports as appropriate and as approved by the Air Compliance Manager in advance for the purpose of minimizing excess/separate reporting.

Streamlined Requirements

Many requirements of the original PSD permit are no longer valid because they have been fulfilled, are less stringent, less appropriate than a requirement provided by Rule 4-54, are redundant or overlap with Rule 4-54. For these reasons, many conditions of the PSD permit are not directly incorporated or do not appear at all in the Title V permit. Those conditions that have been streamlined are indicated below with a brief description of the streamlining activity.

PSD permit Part I, Condition 1 – Not an applicable requirement.

Condition 2 – Permit application and supporting documents not applicable requirements.

Condition 3 – Operating manual requirements have been fulfilled and are also addressed by Rule 4-54 at 9 VAC 5-40-8130 F. (Condition 96 of Title V permit) requiring development and update of facility operating manual.

Condition 5 – The daily limit of 3,000 tons is redundant/less stringent to the individual MWC charging rate of 750 tpd and therefore was not included.

Condition 6 and 7 –The Title V permit reflects only the more stringent (based on Rule 4-54) lb/hr and tpy limits than the limits in the PSD permit.

Condition 10 – The emission standards and/or reduction efficiency requirements for SO₂, HCl, and HF provided by Rule 4-54 at 9 VAC 5-40-7960 C, -8020, and -8030 are at least as stringent as this condition.

Condition 14 – Initial performance test reporting has been fulfilled.

Condition 16 - These requirements have been incorporated into Condition 12 as "Proper Operation and Good Combustion Practices."

Condition 17 – Ambient air quality monitoring has been completed. No additional monitoring was required. Requirement is obsolete.

Condition 19 – Process residue analysis was intended as a tool to evaluate the effectiveness of the combustion process to maximize complete combustion of the MSW at appropriate temperature. This in turn reduces the formation of gaseous pollutants, specifically complex organics. Rule 4-54 requirements such as minimum gaseous pollutant reduction efficiencies, unit load requirements and inlet fabric filter temperature requirements serve to minimize the necessity to continue process residue analysis. Therefore, process residue requirements have been streamlined out of the Title V permit.

Condition 20 - Rule 4-54 (9 VAC 5-40-8060) and PSD permit Condition 20 contain

similar visible emission limits of 10 percent opacity. Condition 20 allows a 6-minute period of up to 30 percent opacity whereas 8060 does not. Therefore the Rule 4-54 limit is more stringent and is reflected in the permit.

Condition 21 – Provided as a State only requirement.

Condition 22 – Definition of MSW as provided in Condition 4 excludes hazardous waste. Requirement to monitor waste stream for non-MSW is incorporated into Condition 4.

Condition 23 – Standby Emission Reduction Plan has been submitted. Requirement is obsolete.

Part II – With the exception of the Conditions 7, 8, 9, 13, and 15, all requirements in Part II of the PSD permit have been fulfilled, are obsolete or are general conditions not applicable to this Title V permit.

Condition 7 - 9 VAC 5-80-8160 (Condition 58) requires all records be maintained for 5 years instead of 2 years as required by the PSD permit.

Condition 8 and 9 - These requirements are incorporated into the Operating Training and Certification section, Conditions 92, 96, 99 and 100.

Cold Solvent Degreasers

Conditions 87 through 91 under the facility wide conditions incorporates state rule 4-47, Emission Standards for Solvent Metal Cleaning Operations in Northern Virginia Volatile Organic Compound Emissions Control Area. The degreasers are not subject to National Emission Standards for Hazardous Air Pollutants Subpart T since Covanta Fairfax states that halogenated solvents (as provided in 40 CFR §63.460(a)) are not used in any of its parts washer. The facility operates two Safety- Kleen Model 250 parts washers that use the Safety- Kleen Premium Gold Solvent which uses light petroleum distillates.

Facility Wide Conditions

This section incorporates Rule 4-54 requirements and PSD permit conditions related to MWC and air pollution control equipment supervisor and operator requirements including training, certification and record keeping. Control room operator "stand-in" provisions have been added to Condition 90, utilizing language contained in the proposed revisions to the MWC Emissions Guidelines (40 CFR 75350, December 19,

2005), to reflect the John Seitz memo (May 14, 1998) on this topic.

Conditions 102-110 (Facility Wide Conditions Section) was added due to the 435 bhp emergency diesel engine generator set that was previously considered an insignificant unit, but is now subject to NSPS 40 CFR 63 Subpart ZZZZ. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than May 3, 2013. On May 1, 2016 the EPA vacated 40 CFR §63.6640(f)(2)(ii-(iii) operations for demand response (emergency demand and non-emergency demand response) is not allowed for emergency engines under 40 CFR Part 63, Subpart ZZZZ.

If you own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations and other requirements in Table 2c to this subpart which apply to you. If the unit does not meet the definition of emergency, then compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.

GENERAL CONDITIONS

The permit contains general conditions required by 40 CFR Part 70 and 9 VAC 5-80-110 that apply to all Federal-operating permitted sources. These include requirements for submitting semi-annual monitoring reports and an annual compliance certification report. The permit also requires notification of deviations from permit requirements or any excess emissions.

Comments on General Conditions

Permit Expiration

This condition refers to the Board taking action on a permit application. The Board is the State Air Pollution Control Board. The authority to take action on permit application(s) has been delegated to the Regions as allowed by §2.2-604 and □§10.1-1185 of the *Code of Virginia*, and the "Department of Environmental Quality Agency Policy Statement No. 2-09"

Failure/Malfunction Reporting

Section 9 VAC 5-20-180 requires malfunction and excess emission reporting within four hours of discovery. Section 9 VAC 5-80-250 of the Title V regulations also requires malfunction reporting; however, reporting is required within two days. Section 9 VAC 5-20-180 is from the general regulations. All affected facilities are subject to section 9 VAC 5-20-180 including Title V facilities. Section 9 VAC 5-80-250 is from the Title V regulations. Title V facilities are subject to both sections. A facility may make a single report that meets the requirements of 9 VAC 5-20-180 and 9 VAC 5-80-250. The report must be made within four daytime business hours of discovery of the malfunction.

In order for emission units to be relieved from the requirement to make a written report in 14 days the emission units must have continuous monitors meeting the requirements of 9 VAC 5-50-410 or 9 VAC 5-40-41.

Permit Modification

This general condition cites the sections that follow:

9 VAC 5-80-50 Applicability, Federal Operating Permit For Stationary Sources

9 VAC 5-80-190 Changes to Permits.

9 VAC 5-80-260 Enforcement.

9 VAC 5-80-1100 Applicability, Permits For New and Modified Stationary Sources

9 VAC 5-80-1790 Applicability, Permits For Major Stationary Sources and Modifications Located in Prevention of Significant Deterioration Areas

9 VAC 5-80-2000 Applicability, Permits for Major Stationary Sources and Major Modifications Locating in Nonattainment Areas

Malfunction as an Affirmative Defense

Four conditions (entitled "Malfunction as an Affirmative Defense") that had been part of the facility's current Title V Permit as well as the draft renewal version advertised for public comment and EPA review, have been removed. State regulations at 9 VAC 5-20-180 G have been revised (effective June 1, 2016) to remove allowance of affirmative defense for violations of emissions limits during startup, shutdown and malfunction, consistent with EPA's 6/12/2015 SIP Call (80 FR 33840).

Asbestos Requirements

The Virginia Department of Labor and Industry under Section 40.1-51.20 of the Code of Virginia also holds authority to enforce 40 CFR 61 Subpart M, National Emission Standards for Asbestos.

This general condition contains a citation from the Code of Federal Regulations that follow:

40 CFR 61.145, NESHAP Subpart M. National Emissions Standards for Asbestos as it applies to demolition and renovation.

40 CFR 61.148, NESHAP Subpart M. National Emissions Standards for Asbestos as it applies to insulating materials.

40 CFR 61.150, NESHAP Subpart M. National Emissions Standards for Asbestos as it applies to waste disposal.

This general condition cites the regulatory sections that follow:

9 VAC 5-60-70 Designated Emissions Standards

9 VAC 5-80-110 Permit Content

STATE ONLY APPLICABLE REQUIREMENTS

The following Virginia Administrative Codes have specific requirements only enforceable by the State and have been identified as applicable by the applicant:

9 VAC 5-50-310, Odorous Emissions 9 VAC 5-50-320, Toxic Pollutants

This section identifies all of the PSD permit requirements that are related to odor or toxic pollutant emissions control.

FUTURE APPLICABLE REQUIREMENTS

EPA originally adopted air emission standards for new and existing large municipal waste combustors (MWCs) in 1995. As required by section 129 of the Clean Air Act, EPA reviewed these standards and proposed revised standards. The proposal occurred on December 19, 2005, and final standards were published on May 10, 2006 (71 FR 27323). A number of individuals filed petitions on various aspects of the standards. Moreover, the Agency received a separate petition to reopen the section 129(a)(2) standards. EPA agreed to initiate such an action. Accordingly, EPA petitioned the court to remand the 2006 LMWC rule to EPA. The court issued the remand in February 2008.

This rule has been under reconsideration since 2007, and there have been no changes made as of June 10, 2015, to SABCB Rule 4-54 or to the Federal Plans provided in 40 CFR Part 62, Subpart FFF—FEDERAL PLAN REQUIREMENTS FOR LARGE MUNICIPAL WASTE COMBUSTORS CONSTRUCTED ON OR BEFORE SEPTEMBER 20, 1994.

INAPPLICABLE REQUIREMENTS

The Beryllium NESHAP (40 CFR Part 61) was found not to apply as documented in internal DEQ correspondence from Regional Engineer William Millward to Director, Source Evaluation, dated September 15, 1986.

Amendments to NSPS Subpart E (40 CFR Part 60)— Standards of Performance for Incinerators, promulgated on May 10, 2006, exempt from coverage under this subpart any facility, such as Covanta Fairfax, covered by an EPA approved State section 111(d)/129.

Amendments to NSPS Subpart Db (40 CFR Part 60) – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, promulgated on February 27, 2006, exempt from coverage under this subpart any facility, such as Covanta Fairfax, covered by an EPA approved State section 111(d)/129 implementing Subpart Cb.

40 CFR Part 63; MACT Subpart T National Emission Standards for Halogenated Solvent Cleaning – Covanta Fairfax does not use halogenated solvents in its parts washers, and therefore is not subject to this MACT.

<u>Boiler MACT (40 CFR Part 63, Subpart DDDDD)</u> – The MWC units meet the definition of 'Industrial Boilers' provided in 40 CFR §63.7575 and therefore meet the general applicability of 40 CFR§63.7485; however, 40 CFR §63.7491(I) excludes boilers specifically listed as an affected source in any standard(s) established under §129 of the Clean Air Act. The MWC units are subject to 9 VAC 5-40-7950 et seq. (a.k.a. Rule 4-54) which implements 40 CFR Part 60, Subpart Cb (Emissions Guidelines and Compliance Times for Large Municipal Waste Combustors that are Constructed on or before September 20, 1994).

<u>CSAPR</u> (40 CFR Part 97, Subpart AAAAA – CCCCC) – Each of the MWC units combusts fossil fuel, which includes petroleum (as defined in 40 CFR §97.402); however, CSAPR doesn't apply to the MWC units because the MWC units qualify as a solid waste incineration unit with an average annual fuel consumption of fossil fuel of less than 20 percent (on a Btu basis) for any 3 consecutive calendar years.

INSIGNIFICANT EMISSION UNITS

The insignificant emission units are presumed to be in compliance with all requirements of the Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

Insignificant emission units include the following:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
IU-1	Fuel Oil Storage Tank	9 VAC 9-80-720 B	VOC	N/A
IU-2	MSW Building/Pit	9 VAC 9-80-720 B	PM and PM-10	N/A
IU-3	Ferrous and Non-ferrous Ash Building	9 VAC 9-80-720 B	PM and PM-10	N/A
IU-4	Residue Ash Building	9 VAC 9-80-720 B	PM and PM-10	N/A
IU-5	Lime Slaker Room	9 VAC 9-80-720 B	PM and PM-10	N/A
IU-7	Grizzly Scalper	9 VAC 9-80-720 B	PM and PM-10	N/A
IU-8	Hydraulic Shredder (in MSW Bldg.)	9 VAC 9-80-720 B	PM and PM-10	N/A
IU-9	HVAC Boiler	9 VAC 9-80-720 C	PM and PM-10, SO ₂ , NO _x , CO and VOC	0.55 MMBtu/hr
IU – 11	Lime Storage Silo Vent	9 VAC 9-80-720 B	PM and PM-10	N/A
IU – 12	Dolomitic Lime Silo	9 VAC 9-80-720 B	PM and PM-10	N/A
IU – 13	Carbon Silo Vent	9 VAC 9-80-720 B	PM and PM-10	N/A

¹The citation criteria for insignificant activities are as follows:

9 VAC 5-80-720 A - Listed Insignificant Activity, Not Included in Permit Application

9 VAC 5-80-720 B - Insignificant due to emission levels

9 VAC 5-80-720 C - Insignificant due to size or production rate

CONFIDENTIAL INFORMATION

The permittee did not submit a request for confidentiality. All portions of the Title V application are suitable for public review.

PUBLIC PARTICIPATION

Per 9 VAC 5-80-270 B, a public notice regarding the draft renewal Title V permit was placed in the *Washington Times* newspaper on April 12, 2016, for the opportunity for public comment through May 13, 2016. All persons on the Title V mailing list were sent a copy of the public notice by either electronic mail or in letters on April 12, 2016. The affected state of Maryland and the District of Columbia were sent a copy of the public notice by electronic mail on April 12, 2016. In addition, DEQ provided a copy of the public notice, the draft permit and Statement of Legal & Factual Basis to Jared Kupiec (Chief of Staff for Frank Principal, Prince William County Supervisor) based on interest his office expressed about this facility's current air permits in December 2015. DEQ did not receive any comments from the public, Maryland, the District of Columbia or Prince William County.

EPA Region III (Mary Cate Opila) was provided a copy of the proposed renewal Title V permit, the Statement of Legal and Factual Basis and the public notice on April 12, 2016. EPA provided comments on the proposed permit on May 16, 2016. DEQ provided responses to EPA's comments on May 23, 2016 and deemed acceptable by EPA on May 23, 2016.

Appendix A PSD PERMIT

ELIZABETH H. HASKELL CHAIRMAN MARTINSVILLE CARL C. REDINGER, VICE CHAIRMAN ALEXANDRIA

JIMOTHY E. BARROW VIRGINIA BEACH MANUEL DEESE RICHMOND

WALLACE E. REED CHARLOTTESVILLE



COMMONWEALTH of VIRGINIA

RICHARD L. COOK EXECUTIVE DIRECTOR

State Air Pollution Control Board

ROOM 801 MINTH STREET OFFICE SUILDING POST OFFICE BOX 1(VIES RICHMOND VIPGRIM T3240 IBON 786 2370

PREVENTION OF SIGNIFICANT AIR QUALITY DETERIORATION PERMIT

APPROVAL TO CONSTRUCT AND OPERATE

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution,

Ogden Martin Systems of Fairfax, Inc. 40 Lane Road, CN 2615 Fairfield, NJ 07007-2615 Registration No. 71920 County-Plant No. 1060-0560

is authorized to construct and operate

a municipal solid waste incinerator facility with energy recovery

located at

the I-95 Landfill, Route 611, in the vicinity of Lorton, Virginia

in accordance with the Specific Conditions (emission limitations, monitoring and testing requirements) and the General Conditions set forth in Parts I and II herein.

Approved on the twelfth day of January, 1987 and amended on February 18, 1988.

Righard L. Cook Executive Director

Permit Consists of 14 pages.

Part I - Specific Conditions 1 to 24.

Part II - General Conditions 1 to 19. Part III - Document List, 29 items.

Part IV - Source Testing Report Format.

PART I - SPECIFIC CONDITIONS - the regulatory reference and authority for each condition is listed in parenthesis () after each condition.

- 1. The Fairfax County municipal solid waste energy/resource recovery facility is located at the I-95 Landfill, Furnace Road (Route 611).
- Construction and operation shall be conducted as proposed in the permit application dated June 6, 1986. The permit application and supporting documents (see Document List) are a part of this permit. (Section 120-02-11 of State Regulations)
- 3. When published, the manual containing the facility operating procedures agreed to by Fairfax County and the vendor selected to construct and operate the plant shall be submitted to the Board and if approved by the Board becomes a specific condition of this permit. It shall include specific instructions on when the incinerator feed is to be stopped and how shut down is to be accomplished with minimal impact on air quality. (Section 120-02-11 of State Regulations)
- 4. The equipment to be installed consists of:
 - four mass burn water wall furnace/boilers, each with reciprocating stoker grates, Martin-Stoker Boiler System (or equivalent), rated heat capacity 344 x 106 BTU/hour, 750 tons per day capacity, and with auxiliary gas-fired burner, Babcock and Wilcox STS (or equivalent), rated at 115 x 106 BTU/hour.
 - four <u>scrubber-baghouse</u> pollution control systems, Belco-Flact (or equivalent).
- 5. The facility shall not incinerate more than 3,000 tons of municipal solid waste per day and 1,095,000 tons per year based upon a heating value of 5,500 BTUs per pound. The charging rate per furnace/boiler shall not exceed 750 tons of MSW per day corrected for moisture content.

 (Section 120-02-11 of State Regulations)
- 6. Emissions from the operation of each furnace/boiler shall not exceed the limitations specified below:

Particulate Matter 0.010 grains per dry 7.5 lbs/hr 30.0 tons/yr cubic feet at standard conditions corrected to 12 percent CO₂.

Sulfur Dioxide	44.4 lbs/hr	176.6 tons/yr
Volatile Organic Compounds	1.7 lbs/hr	6.8 tons/yr
Nitrogen Oxides	206.3 lbs/hr	*716.2 tons/yr
Carbon Monoxide	158.1 lbs/hr	60.3 tons/yr
Lead	1.7 lbs/hr	6.7 tons/yr

*This is equivalent to 5.75 pounds of NO_X per ton of waste burned, 72 hour average, based on 91 percent availability, annual only.

(Sections 120-05-0404 and 120-05-0405 of State Regulations)

7. Non-criteria pollutant emissions from the operation of each furnace/boiler shall not exceed the limitations specified below:

Sulfuric Acid Mist (H ₂ SO ₄)	7.1 lbs/hr	28.30 tons/yr		
Hydrogen Chloride (HC1)	28.53 lbs/hr	113.60 tons/yr		
Hydrogen Bromide (HBr)	1.93 lbs/hr	7.67 tons/yr		
Cadmium (Cd)	$4.7 \times 10^{-2} $ lbs/hr	.0.19 tons/yr		
Antimony (Sb)	0.14 lbs/hr	0.55 tons/yr		
Arsenic (As)	$7.3 \times 10^{-3} \text{ lbs/hr}$	0.03 tons/yr		
Mercury (Hg)	0.33 lbs/hr	1.32 tons/yr		
Beryllium (Be)	$2.0 \times 10^{-4} \text{ lbs/hr}$	7.94 x 10 ⁻⁴ tons/yr		
Fluoride (as HF)	0.45 lbs/hr	1.78 tons/yr		
Dioxins (USEPA Toxic) Equivalents)	2.0 ng/Nm ³	$2.42 \times 10^{-6} $ tons/yr		
(Section 120-05-0303 of State Regulations)				

8. Particulate and lead emissions in the furnace/boilers flue gas will be controlled by four electrostatic precipitators or equivalent control equipment. The control devices shall be provided with adequate access for inspection.

(Section 120-08-02 K of State Regulations)

- 9. Cadmium, antimony, arsenic, beryllium and mercury trace emissions in the furnace/boilers flue gas will be partially controlled by the four electrostatic precipitators or equivalent control equipment. The control devices shall be provided with adequate access for inspection.

 (Section 120-08-02 K of State Regulations)
- Carbon monoxide, nitrogen oxides and volatile organic compound 10. emissions in the furnace/boilers flue gas will be controlled by furnace design and proper operation. Sulfur dioxide and sulfuric acid mist emissions in the furnace/boilers flue gas will be controlled by a combination of the low sulfur content of the waste to be burned and by air pollution control equipment which will reduce emissions by a minimum of 70 percent on an hourly basis. In addition, sulfur dioxide emissions and sulfuric acid mist must not exceed the emission limitations of Conditions 6 and 7, above. Hydrogen chloride, hydrogen bromide and hydrogen fluoride emissions in the furnace/boilers flue gas will be controlled by air pollution control equipment which will reduce emissions by a minimum of 90 percent on an hourly basis. In addition, hydrogen chloride, hydrogen bromide and hydrogen fluoride emissions must not exceed the emission limitations of Condition 7, above. (Section 120-08-02 K, 120-05-0403, 120-05-0405 and 120-05-0303 of State Regulations)
- 11. The approved auxiliary fuel for the furnace/boilers is natural gas. A change in the fuel may require a permit to modify and operate. The operation of the furnace/boilers shall meet the requirements of Subpart Db. 40 CFR 60 (Standards of Performance for New Stationary Sources: Industrial-Commercial-Institutional Steam Generating Units) wherein the firing of the furnace/boilers with natural gas is limited to an annual capacity factor of 10 percent or less, in order to be exempt from the nitrogen oxides limitation of 0.30 pounds per million BTU heat input promulgated in § 60.44 (d). Records will be maintained on the amounts of natural gas used as auxiliary fuel in each of the furnace/boilers and be made available for review by SAPCB enforcement personnel during inspections of the facility. (Sections 120-08-02 and 120-02-11 of State Regulations and Subpart Db 40 CFR 60)
- 12. In order to facilitate continuing compliance measurements, test ports, safe sampling platforms, safe access to sampling platforms, and utilities for sampling and testing equipment will be provided. Test ports will be located in accordance with approved EPA test methods.
 (Section 120-05-03 F of State Regulations)

- Within the time limits specified in General Condition No. 4 of this 13. permit, and each year thereafter, stack tests for emissions of particulate matter, sulfur dioxide, nitrogen oxides, lead, sulfuric acid mist, hydrogen chloride, hydrogen bromide, fluoride, beryllium, mercury, antimony, arsenic, cadmium, and dioxins and furans from the control equipment shall be conducted. Both upstream and downstream testing of the acid gas control device shall be conducted to demonstrate compliance with the required control efficiencies. Stack tests shall be conducted and reported and data reduced as set forth in Sections 120-05-03 and 120-06-03 of State Regulations and the test methods and procedures contained in each applicable section or subpart listed in Sections 120-05-0502 and 120-06-0102. At the same time, opacity tests, in accordance with 40 CFR, Part 60, Appendix A, Method 9, shall also be conducted on the stack exhaust(s). The details of the emission tests are to be arranged with the Director, Region VII. (Section 120-08-01 H of State Regulations)
- 14. Results of the stack tests required in condition 13 above will be submitted to the Board for review. Based on evaluation of these results, emission limits specified in this permit may be revised by the Board.

 (Section 120-02-11 of State Regulations)
- 15. Continuous emission monitors and monitor devices will be installed, calibrated, maintained and operated to measure and record the opacity of stack emissions, the furnace temperature, and concentrations of oxygen, carbon monoxide, nitrogen oxides, and sulfur dioxide emitted from each of the four furnace/boilers and the voltage and amperage or pressure drop appropriate to the installed control equipment. Continuous emission monitors will be maintained and calibrated in accordance with 40 CFR 60, Appendix B. (Section 120-05-04 of State Regulations) 9 vac 5-50-40
- 16. Continuing compliance with the emission limits for gaseous pollutants, including organics, shall be achieved by hour-to-hour operation of each boiler furnace within a narrow envelope of furnace/boiler temperature and excess air ranges required to accommodate the varying BTU content of the waste fuel. Each furnace/boiler shall be operated to maintain a furnace temperature of a minimum of 1800° F with a one second residence time at that temperature. The furnace/boiler temperature, excess air, residence time and other parameters shall be properly maintained to ensure maximum destruction of dioxin and precursor compounds. A range of numerical limits for all of these parameters will be determined based on the Performance Tests.

 (Section 120-02-11 of State Regulations)

- 17. Ambient air quality monitoring shall be conducted for particulates, sulfur dioxide, lead, mercury, and cadmium. Monitoring shall be conducted one year prior to start-up and three years following start-up of the facility. The Board will evaluate the data at the end of four years to determine if further monitoring is necessary. (Section 120-08-02 N of the State Regulations)
- 18. The I-95 Energy/Resource Recovery plant manager/supervisor will maintain daily records of tons of MSW incinerated and facility operating hours. Such records will be maintained on file for a period of two years and made available for review by State Air Pollution Control Board enforcement officers. (Section 120-02-11 of State Regulations)
- 19. Continuing compliance with emission limits for gaseous pollutants, including organics, shall be demonstrated by conducting semi-annual analysis of total process residues for dry weight combustibles from each furnace/boiler. Design limit of 5 percent for dry weight of combustibles in the residue shall not be exceeded during a 12-hour period with the furnace/boiler fired not less than 90 percent of maximum rated capacity. Samples shall be drawn by Fairfax County authorities and/or the State Air Pollution Control Board enforcement officers and shall be analyzed by an independent test laboratory. (Section 120-02-11 of State Regulations)
- 20. In order to verify continuous compliance with particulate emission limitations, visible emissions from the stack(s) shall not exceed 10 percent opacity, except for one six-minute period in any one hour of not more than 30 percent opacity. The presence of water vapor in the visible emissions will be excluded from the readings. Failure to continuously maintain this visible emission limitation may require a retest for compliance with particulate and other pollutant emission limitations using approved EPA test methods and procedures.

 (Section 120-02-11 of State Regulations)
- 21. To minimize odors at the facility a negative pressure will be maintained on the tipping floor and air from within the building will be used as combustion air. (Sections 120-05-0203 and 120-05-0204 of State Regulations)
- 22. The Department of Public Works Fairfax County shall assure that waste haulers shall not deliver hazardous waste to the facility. The waste stream will be monitored at the transfer stations, at the scale house, on the tipping floor and in the refuse bunker to ensure that only household solid waste is being processed by the facility.

 (Section 120-02-11 of State Regulations)

- 23. Fairfax County shall submit a Standby Emission Reduction Plan for the E/ER facility as required by Part VII (Air Pollution Episodes), Section 120-07-05, for reducing emissions during periods of alert, warning and emergency stages. The plan will be submitted to the Director, Region VII not later than ninety days after becoming operational.

 (Section 120-02-11 and 120-07-05 of State Regulations)
- 24. The SAPCB will notify the owner/operator of the facility when:
 - a. meteorological conditions are favorable for the potential buildup of ozone concentrations in the area for more than 24 hours,
 - b. ozone concentrations in the area exceed the NAAQS, and
 - c. ozone concentrations are no longer expected to exceed the NAAQS.

Owner/operator shall take reasonable actions to minimize impact of the facility during periods of expected adverse air quality.

(Section 120-02-11 of State Regulations)

PART II - GENERAL CONDITIONS

- 1. Within 10 days after receiving this permit the permittee shall notify the Board (Director, Region VII) in writing of the estimated start-up date of the permitted facility. This notification is for administrative purposes only and need not be a firm date. (Section 120-02-11 of State Regulations)
- Quarterly reports on the progress of construction shall be submitted to the Director, Region VII, beginning July 10, 1987 for the quarter ending June 30, 1987.
 (Section 120-02-11 of State Regulations)
- 3. The permittee shall furnish written notification to the Board (Director, Region VII) of:
 - a. The actual date on which construction commenced within 30 days after such date.
 - b. The anticipated start-up date postmarked not more than 60 days nor less than 30 days prior to such date.

- c. The actual start-up date within 15 days after such date.
- d. The anticipated date of performance tests of the facility postmarked at least 30 days prior to such date. (Section 120-05-05 of State Regulations)
- 4. Each emission point for which a stack test requirement is established in Part I of this permit shall be tested to determine compliance with the emission limits contained herein within 60 days after achieving the maximum production rate but in no event later than 130 days after start-up of the permitted facility. Compliance test results shall be reported to the Board (Director, Region VII) in writing within 45 days after test completion and shall conform to the test report format enclosed with this permit. (Sections 120-05-03 and 120-06-03 of State Regulations)
- 5. The permitted facility shall be designed and constructed so as to allow emissions testing using the methods prescribed upon reasonable notice at any time.

 (Sections 120-05-03 and 120-06-03 of State Regulations)
- 6. All continuous monitoring systems and monitoring devices, as may be applicable for this source, shall be installed and operational prior to conducting performance tests under Sections 120-05-03 and 120-06-03. Performance evaluations of the continuous monitoring system must take place during the performance tests under Sections 120-05-03 and 120-06-03 or within 30 days thereafter. The Board must be furnished with two copies of the report of the performance evaluations within 60 days of these evaluations. (Sections 120-05-04 and 120-06-04 of State Regulations)
- 7. The permittee shall maintain records of all emission data and operating parameters required by the terms of this permit. These records shall be retained for a period of at least two years. (Sections 120-05-05 and 120-06-05 of State Regulations)
- 8. All air pollution control equipment operators will be trained and certified in the proper operation of all such equipment. The I-95 Energy/Resource Recovery plant manager/supervisor will maintain records of the required training and certification. Certification of training shall consist of a statement of time, place and nature of training provided.

 (Section 120-02-11 of State Regulations)
- 9. The I-95 Energy/Resource Recovery plant manager/supervisor will develop, maintain, and have available to all operators good written operating procedures for all air pollution control equipment. A

maintenance schedule for all such equipment will be established and made available to the State Air Pollution Control Board for review. Records of service and maintenance will be maintained on file by the source for a period of two years. (Section 120-02-11 of State Regulations)

- 10. The Board reserves the right to modify and, if appropriate, to reissue or to rescind this permit if prior to operation there is a substantive change to the design capacity or the fundamental nature of the process or control equipment such that the potential to emit of any facility is increased.

 (Section 120-02-11 of State Regulations)
- 11. The Board reserves the right to modify and, if appropriate, to reissue or to rescind this permit if prior to operation there is a substantive change in any of the data upon which the decision to approve this permit was based.

 (Section 120-02-11 of State Regulations)
- 12. All local zoning and building requirements must be met before commencing construction. (Section 120-02-11 of State Regulations)
- 13. If, for any reason, the permittee does not comply or will not be able to comply with the emission limitations or other conditions specified in this permit, the permittee shall provide in writing to the Board (Director, Region VII) the following information as soon as possible but no later than five days after such conditions become known to the permittee:
 - description of noncompliance;
 - b. cause of noncompliance;
 - c. anticipated time the noncompliance is expected to continue or, if corrected, the actual duration of noncompliance;
 - d. steps taken by the permittee to minimize or eliminate the noncompliance; and
 - e. steps taken by the permittee to prevent recurrence of the noncompliance.

Submittal of this report does not constitute a waiver of the emission limitations or other conditions of this permit nor does it in any way restrict the SAPCB's authority to enforce the permit conditions pursuant to Section 113 of the Clean Air Act. (Section 120-02-11 of State Regulations)

- 14. The permitted facility is to be constructed and operated as represented in the permit application referenced in Condition 2 of Part I. No changes in the permit application specifications or any existing facilities shall be made which alter the emissions into the ambient air or alter the impact of the facility on air quality without the prior written approval of the Board. (Section 120-02-11 of State Regulations)
- 15. The facility shall operate in compliance with Rule 5-3, Non-Criteria Pollutants. No changes in the facility that alter emissions of any non-criteria pollutant or cause the emission of additional non-criteria pollutants shall be made without the prior written approval of the Board.

 (Section 120-05-0305 of State Regulations)
- 16. This approval shall become invalid if construction of the proposed plant is not commenced within 18 months from the date of this permit or if it is discontinued for a period of 18 months. (Section 120-08-02 S of State Regulations)
- 17. In the event of any change in control of ownership of the permitted source, the permittee shall notify the succeeding owner of the existence of this permit by letter and send a copy of that letter to Director, Region VII.

 (Section 120-02-11 of State Regulations)
- 18. The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of that provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

 (Section 120-02-11 of State Regulations)
- 19. This permit approval is only applicable to the permit requirements of the State Air Pollution Control Board and does not alter permit requirements by any other local, state, or federal government agency. Ogden Martin Systems of Fairfax, Inc. is cautioned that approval of this permit should not be construed to mean its operation is automatically in compliance with all aspects of the Regulations for the Control and Abatement of Air Pollution. State Air Board personnel will be constantly evaluating all sources for compliance with Part V, Section 120-05-0103 Standard for Visible Emissions, Section 120-05-0104 Standard for Fugitive Dust/Emissions, and Section 120-05-0203 Standard for Odorous Emissions. Compliance with all air pollution regulations must be a continuing, full time effort.

 (Section 120-02-11 of State Regulations)

Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate your response to requests for information to include, as appropriate: fuel consumption by type, heat value, sulfur and ash content; process and production data; refuse disposal by incineration including auxiliary fuels burned; storage, handling and use of liquid organic compounds; and, changes in stack data, control equipment, and operating schedules. Such requests for information from the Regional Office will either be in writing or by personal contact of field enforcement personnel. Emissions data provided to the Board by a source must be made available to the public upon request; process data for individual facilities and plants will be made available to the public upon request unless the source claims, in writing, the information is proprietary and that it should be held as confidential.

(Section 120-02-31 of State Regulations)

PART III - DOCUMENT LIST

- 1. Department of Public Works Fairfax County, permit application (Prevention of Significant Deterioration), dated June 6, 1986, complete with supporting documentation prepared by Camp Dresser and McKee.
- 2. Region VII memorandum to Division of Source Evaluation, dated September 9, 1986, providing engineering evaluation with draft documents concerning public comment period and draft permit letter with conditions.
- 3. PSD determination letter to Fairfax County, dated December 20, 1985.
- 4. Memoranda dated August 8, 1986 and August 11, 1986 from State Air Pollution Control Board engineer, Robert Garrett, to Director, Division of Computer Services concerning the PSD Modeling Report for the Fairfax County I-95 Energy Resource Recovery Facility.
- 5. Memorandum dated September 15, 1986 from Engineer, Region VII to Director, Division of Source Evaluation, concerning the exemption of municipal incinerators from NESHAP for beryllium (40 CFR 61, Subpart C).
- 6. Letter to Mr. Ronald N. Wrye, Superintendent, Shenandoah National Park which notified the organization of the Fairfax County Waste-to-energy recovery facility project, signed by William N. Millward, SAPCB Region VII and dated August 25, 1986.

- 7. Memoranda, dated November 10, 1986 and November 19, 1986 from Director, Region VII to Director, Division of Source Evaluation summarizing the public hearing on November 5. Supporting documents included.
- 8. Department of Public Works, County of Fairfax letter to Director, Region VII notifying the SAPCB of differences between the theoretical facility design parameters of the 1986 PSD permit application and the current design of the County's I-95 Energy/Resource Recovery Facility, dated June 2, 1987.
- 9. Director, Division of Computer Services memorandum requiring the Fairfax County I-95 Energy/Resource Recovery Facility PSD permit to be remodelled because of proposal deviations in the emissions and stack parameters, dated June 26, 1987.
- 10. Director, Region VII, State Air Pollution Control Board letter to the Director, Department of Public Works, County of Fairfax notifying the County of the requirement for remodelling and discussion of the details with the Director, Division of Computer Services, dated July 6, 1987.
- 11. Ogden Projects, Incorporated letter to County of Fairfax providing data on physical design parameters and proposed emission level changes, dated August 21, 1987 and Department of Public Works, County of Fairfax letter to Director, Region VII, State Air Pollution Control Board forwarding request and seeking approval, dated August 27, 1987.
- 12. Ogden Martin Systems, Incorporated letter to the Director, Division of Computer Services providing proposed modelling protocol for approval, dated September 2, 1987.
- Department of Public Works, County of Fairfax (Division of Solid Waste) letter to Director, Region VII transmitting a copy of the County's Service Agreement with Ogden Martin Systems of Fairfax, Incorporated and requesting transfer (ownership) of the PSD permit to Ogden Martin Systems of Fairfax, Incorporated, dated October 16, 1987.
- 14. Ogden Projects, Incorporated letter to Director, Region VII, State Air Pollution Control Board requesting approval of adjustments (modifications) to the PSD permit for the I-95 Energy/Resource Recovery Facility, dated October 19, 1987.
- 15. Ogden Projects, Incorporated letter to Director, Region VII, State Air Pollution Control Board referencing request of October 19, 1987 providing additional refined modeling analyses, dated November 4, 1987.

- 16. State Air Pollution Control Board letter to Ogden Martin Systems, Incorporated changing the ownership/name of the proposed I-95 Energy/Resource Recovery Facility to Ogden Martin Systems of Fairfax, Incorporated, dated November 10, 1987.
- 17. Ogden Projects, Incorporated letter to Executive Director, State
 Air Pollution Control Board providing additional material and
 specific responses to questions from the State Air Pollution
 Control Board staff concerning the request to modify the PSD permit
 for the I-95 Energy/Resource Recovery Facility, dated December 10,
 1987, as amended December 18, 1987.
- 18. Division of Computer Services memorandum Report on Modeling for Proposed Changes to the Fairfax County I-95 Energy/Resource Recovery Facility (Ogden Martin Systems of Fairfax, Incorporated, dated December 28, 1987.
- 19. Engineering evaluation State Air Pollution Control Board staff memorandum to Executive Director, dated December 30, 1987.
- 20. Wallace E. Reed, Board Member, letter to the Assistant Executive Director, Operations requesting more information and answers to questions on the proposal, dated December 31, 1987.
- 21. Division of Monitoring memorandum report on 1987 NMOC Monitoring in Northern Virginia providing conclusions concerning the validity of the monitoring data at the Aurora Hills station in Arlington and providing NMOC/NO ratios data for the Mt. Vernon station in Fairfax, dated January 11, 1988.
- 22. Division of Computer Services memorandum report on Air Quality

 Modeling to Predict NO, Impact in Region VII caused by the proposed changes to the I-95 E/RR Facility, dated January 21, 1988.
- 23. Region VII SAPCB memorandum Report of Public Hearing Revised Emission Limits for Fairfax County WTE Plant to Director, Source Evaluation Division, dated January 22, 1988.
- Executive Director, SAPCB letter to Director, Department of Public Works, Fairfax County providing schedule for the Board meeting to act on the Ogden Martin request for changes to the PSD permit dated January 25, 1988.
- 25. Ogden Martin Systems letter to the State Air Pollution Control Board staff providing Thermal DeNOX cost data on the Stanislaus, California facility and calculations supporting the estimated cost for Thermal DeNOX on the Fairfax County facility, dated January 25, 1988.

- 26. Fish and Wildlife Service, U.S. Department of Interior letter dated January 26, 1988 to the Assistant Executive Director, SAPCB providing signed copy of letter jointly signed by the Acting Superintendent of the Shenandoah National Park and the Refuge which was previously submitted unsigned at the public hearing on January 21, 1988.
- 27. Region VII SAPCB memorandum to the Director, Division of Source Evaluation forwarding the Public Hearing-Verbatim Transcript Reports, Ogden Martin Systems of Fairfax, Inc. PSD Permit Modification to Fairfax County I-95 Energy/Resource Recovery Facility, dated January 27, 1988.
- 28. EPA Region III letter to Assistant Executive Director, Operations, SAPCB providing comments in response to the public hearing of January 21, 1988 on the proposed amendments to the Fairfax County I-95 E/RR facility, dated January 28, 1988.
- 29. Ogden Martin System of Fairfax, Inc. letter dated February 4, 1988 to Director, Region VII, SAPCB providing detailed response to Executive Director letter of January 25, 1988 to Director, Public Works Department, Fairfax County and included information on ozone and acid rain issues.

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PART IV - SOURCE TESTING REPORT FORMAT

Cover

- 1. Plant name and location
- 2. Source sampled
- 3. Testing company or agency, name, address and report date

Certification

- 1. Certification by team leader
- 2. Certification by reviewer (e.g., P.E.)

Introduction

- 1. Test purpose
- 2. Test location, type of process (indicate Reference No. used by source in permit or Registration)
- 3. Test dates
- 4. Pollutants tested
- 5. Observers' names (industry and agency)
- 6. Any other important background information

Summary of Results

- 1. Emission results
- 2. Process data as related to determination of compliance (quantity of ink solvents used during text and amount recovered)
- 3. Allowable emissions
- 4. Description of collected samples
- 5. Visible emissions summary
- 6. Discussion of errors, both real and apparent

Source Operation

- 1. Description of process and control devices
- 2. Process and control equipment flow diagram
- 3. Process data and results with example calculations
- 4. Representatives of raw materials and products
- 5. Any specially required operation demonstrated

Sampling and Analysis Procedures

- 1. Sampling port location and dimensioned cross section
- 2. Sampling point description, including labeling system
- 3. Sampling train description
- 4. Brief description of sampling procedures with discussion of deviations from standard methods
- 5. Brief description of analytical procedures with discussion of deviation from standard methods

Appendix

- 1. Complete results with example calculations
- 2 Raw field data (original, not computer printouts)
- 3. Laboratory report with chain of custody
- 4. Raw production data signed by plant official
- 5. Test log
- 6. Calibration procedures and results
- 7. Project participants and titles
- 8. Related correspondence
- 9. Standard procedures

Appendix B RACT PERMIT



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Northern Virginia Regional Office 13901 Crown Court Woodbridge, VA 22193 (703) 583-3840 Fax (703) 538-3841

CONSENT AGREEMENT

MITH

Ogden Martin Systems of Fairfax, Incorporated 40 Lane Road P.O. Box 2615 Fairfield, New Jersey 07007-2615

Registration No. 71920

SECTION A: Purpose

This Agreement establishes a schedule for compliance with the terms of the consent agreement (hereafter referred to as the "RACT Agreement") which establishes a Reasonably Available Control Technology (RACT) standard for Ogden Martin Systems of Fairfax. Inc. for the control of nitrogen oxides (NO_x) emissions at the I-95 Energy/Resource Recovery Facility as required by 9 VAC 5-40-310 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution.

SECTION B: References

Unless the context indicates otherwise, the following words and terms have the meanings assigned to them below:

"Agreement" means this Consent Agreement.

"Board" or "SAPCB" means the State Air Pollution Control Board, a collegiate body of the Commonwealth of Virginia described in § 10.1-1301

of the Code. Particular powers and duties of the Board are described in Section C of this document.

"Code" means the Code of Virginia.

"DEQ" means the Department of Environmental Quality, an agency of the Commonwealth described in § 10.1-1183 of the Code.

"Director" means the Director of the Department of Environmental Quality. Particular powers and duties of the Director are described in Section C of this document.

"EPA" means the United States Environmental Protection Agency.

"Municipal Waste Combustor" or "MWC" means any device that combusts, solid, liquid, or gasified municipal solid waste including, but not limited to, field-erected incinerators (with or without heat recovery), modular incinerators (starved air or excess air), boilers (i.e., steam generating units), furnaces (whether suspension-fired, grate-fired, mass-fired, or fluidized bed-fired) and gasification/combustion units.

"Non-CTG" means a source type for which the EPA has not issued a Control Technique Guideline (CTG), and thus has not established RACT for that source type.

 $"{\rm NO_{x}}"$ means nitrogen oxides as defined by 9 VAC 5-10-20 of the SAPCB Regulations.

"Ogden Martin" or "affected facility" or "Fairfax facility" means the I-95 Energy/Resource Recovery Facility located at 9898 Furnace Road. Lorton, Virginia, operated by Ogden Martin Systems of Fairfax. Incorporated.

"Ogden Energy Group, Inc." is a company providing corporate support to Ogden Martin Systems of Fairfax, Incorporated.

"RACT Agreement" means the consent agreement between Ogden Martin Systems of Fairfax. Inc. and DEQ that establishes the Reasonably Available Control Technology (RACT) standard for the control of nitrogen oxide (NO_x) emissions at the I-95 Energy/Resource Recovery Facility.

"Reasonably Available Control Technology" or "RACT" means the lowest emission limit that a particular source is capable of meeting by the application of control technology that is both reasonably available, as well as technologically and economically feasible.

"Regional Director" means the Director of the Northern Virginia Regional Office of the Department of Environmental Quality, located at 13901 Crown Court in Dale City (Woodbridge), Virginia.

"SAPCB Regulations" means 9 VAC 5 Chapters 10 through 80.

"SIP" or "State Implementation Plan" means the portion or portions of the plan, or the most recent revision thereof, which has been approved under § 110 of the federal Clean Air Act, or promulgated under § 110(c) of the federal Clean Air Act, or promulgated or approved pursuant to regulations promulgated under § 301(d) of the federal Clean Air Act and which implements the relevant requirements of the federal Clean Air Act.

"SNCR" means selective non-catalytic reduction, a means of controlling combustion-produced nitrogen oxides emissions by injection of an ammonia-based reagent into the flue gases.

"Theoretical potential to emit" means the maximum capacity of a stationary source to emit a pollutant under its physical and operational design. It is based on emissions at design capacity or maximum production and maximum operating hours (8,760 hours per year) before add-on controls, unless the source is subject to state and federally enforceable permit conditions which limit production rates or hours of operation.

"Units" means the individual boilers (combustors) which are fueled primarily by refuse and which supply steam to electric power generating turbines. The units are numbered 1 through 4.

"VOC" means volatile organic compounds as defined by $9\ VAC\ 5-10-20$ of the SAPCB Regulations.

"VAC" or "9 VAC" means Title 9 of the Virginia Administrative Code. This title comprises the environmental regulations for the Commonwealth of Virginia, including the regulations of the State Air Pollution Control Board.

SECTION C: Authority

- 1. Chapter 13 of Title 10.1 of the Code creates the Board and vests in it the authority to supervise and control various aspects of air pollution in the Commonwealth. Among the Board's powers is the authority to promulgate regulations "abating, controlling and prohibiting" air pollution, found in § 10.1-1308 of the Code.
- 2. Pursuant to its authority, the Board has promulgated the SAPCB Regulations, which first took effect March 17, 1972 and have been periodically amended.
- 3. Pursuant to § 10.1-1307 D of the Code, the Board has the authority to issue orders to diminish or abate the causes of air pollution and to enforce its regulations. Orders of the Board are enforceable pursuant to §§ 10.1-1316 and 10.1-1320 of the Code.
- 4. The Director is the executive officer of the Board. Under § 10.1-1307.2 A of the Code, the Director is to perform those duties required of him by the Board. Additionally under § 10.1-1307.3 of the Code, the Director has such powers to supervise, administer and enforce the provisions of Chapter 13 of Title 10.1 of the Code, as well as the regulations and orders of the Board, as are conferred upon him by the Board. The powers and duties conferred and imposed upon the Director under §§ 10.1-1307.2 and 10.1-1307.3 of the Code are continued under § 10.1-1185 of the Code.
- 5. Under § 10.1-1307.2 B of the Code, the Director may be vested with the authority of the Board when it is not in session, subject to such regulations or delegation as may be prescribed by the Board. 9 VAC 5-20-130 of the SAPCB Regulations contains the Delegation of Authority from the Board to the Director. In subdivision C 1 of 9 VAC 5-20-130 the Director is given the authority, with some exceptions, to act for the Board when it is not in session and to issue consent orders and emergency special orders.

SECTION D: Findings

- 1. Ogden Martin Systems of Fairfax. Inc. operates a resource recovery facility in which refuse is burned to produce steam for electric power generation at 9898 Furnace Road in Lorton (Fairfax County), Virginia.
- 2. 9 VAC 5-40-310 (formerly Section 120-04-0408) of the SAPCB Regulations, which became effective on January 1, 1993, requires RACT for all major stationary sources of NO_x emissions in the Northern Virginia Ozone Nonattainment Area, which includes the Cities of Alexandria, Fairfax, Falls Church, Manassas, Manassas Park, and the Counties of Arlington, Fairfax, Loudoun, Prince William and Stafford.
- 3. By letter dated March 27, 1995, EPA commented on a RACT consent agreement between an electric utility and DEQ. EPA stated that since the consent agreement proposed a compliance date after May 31, 1995, while failing to demonstrate that such an extension to the statutory compliance deadline fell within the EPA guidelines for granting an extension, "the Commonwealth may want to consider maintaining May 31, 1995, as the enforceable deadline, and issuing a Consent Order or other enforcement tool that establishes a schedule for the facility to come into compliance...An enforcement approach will allow EPA to similarly impose the May 31, 1995 deadline, but allow the facility the time that it will need to comply with RACT without incurring penalties unless the facility fails to meet a required milestone."
- 4. Ogden Martin Systems of Fairfax, Inc. and DEQ signed a consent agreement of even date with this Agreement which establishes NO_x RACT and the means of determining compliance for the affected facility.
- 5. In order to comply with the request of EPA made in the letter dated March 27, 1995, DEQ believes it is necessary to compose a separate consent agreement specifically to enforce a compliance schedule for each RACT consent agreement to which it is a party that will not be fully implemented by May 31, 1995. This document constitutes such an agreement.

6. Ogden Martin estimates that approximate facility-wide NO_x reductions (below 1997 baseline) in tons per quarter achieved by the Fairfax facility will be as follows:

During Quarter	Year	Estimated Quarterly NO _x Reduction (tons)	Estimated Cumulative NO _x Reduction (tons)
1st	2000	0	0
2nd	2000	5.6	5.6
3rd	2000	81.4	87.0
4th	2000	106.6	193.6

Note: These estimates are for DEQ planning purposes only.

SECTION E: Agreement

Accordingly, the Board and Ogden Martin agree that:

- 1. Implementation of the terms of the RACT Agreement shall be according to the schedule provided in the following paragraphs.
- 2. Ogden Martin shall comply with the terms of the schedule below:

	Due Date for Final Control Plan Submission	Due Dates for Contract or Purchase Or- der Issuance	Date Onsite Construction to Begin By	Date Construction Completed By	Due Date for Final Compliance*
Units 1,2,3 & 4	3/01/99	10/15/99	3/01/00	11/19/00	12/19/00

^{*}As defined at §62.14108(a)(5) of the Federal Register of January 23, 1998

- 3. Beginning with the calendar quarter during which the first implementation milestone is scheduled (paragraph E.2 above), Ogden Martin shall submit to the DEQ Regional Air Compliance Manager no less than five days following each calendar quarter a status report for that quarter describing the progress toward each milestone specified in paragraph E.2 above and noting the achievement of or failure to achieve any milestone which paragraph E.2 shows as falling within the quarter being reported. Submission of these milestone status reports may be discontinued following submission of the report for the quarter in which the last milestone is achieved.
- 4. A revision of the RACT Agreement shall not be cause to terminate or revise Section E of <u>this</u> Agreement except by mutual agreement of the signatory parties.
- 5. The Board may modify, rewrite, or amend this Agreement with the consent of Ogden Martin, for good cause shown by Ogden Martin, or on its own motion provided approval of the changes is accomplished in accordance with SAPCB regulations and the Administrative Process Act (§ 9-6.14:1 et. seq.).

Compliance Schedule Consent Agreement with Ogden Martin Systems of Fairfax, Inc. Registration No. 71920 Page 8

- 6. So long as this Agreement remains in effect. Ogden Martin waives the right to any hearing pursuant to §§ 9-6.14:11 and 9-6.14:12 of the Code and to judicial review of any issue of fact or law contained herein. Nothing herein, however, shall be construed as a waiver of the right to a hearing or to judicial review of any action taken by the Board to enforce this Agreement.
- 7. Failure by Ogden Martin to comply with any of the terms of this Agreement shall constitute a violation of an Order of the Board. Nothing herein shall waive the initiation of appropriate enforcement actions or the issuance of additional orders as appropriate by the Board as a result of such violations. Nothing herein shall affect appropriate enforcement actions by any other federal, state, or local regulatory authority.
- 8. Ogden Martin declares it has received fair and due process under the Administrative Process Act (§ 9-6.14:1 et. seq.).
- 9. This Agreement shall become effective upon signature by both parties and shall continue in effect indefinitely or until otherwise terminated by the Board.

Compliance Schedule Consent Agreement with Ogden Martin Systems of Fairfax, Inc. Registration No. 71920 Page 9

The foregoing Consent Agreement has been executed on behalf of the STATE AIR POLLUTION CONTROL BOARD of the COMMONWEALTH OF VIRGINIA and on behalf of Ogden Martin Systems of Fairfax, Inc., each by its duly authorized representatives, or self, on the dates indicated below.

DEPARTMENT OF ENVIRONMENTAL QUALITY OF THE COMMONWEALTH OF VIRGINIA

4/3/98 (date)	BY: Our M. Dune g Arthomas L. Hopkins Director
3-/8-98 (date)	OGDEN MARTIN SYSTEMS OF FAIRFAX, INC. BY: John M. Klett Executive Vice President, Operations
	<pre>(State in which notary is commissioned) (County in which notary is commissioned)</pre>
of	•
	Notary Public

Appendix C Emissions Inventory for 2015

CEDSAir

Home / Process: 1 / Covanta Fairfax, Inc.

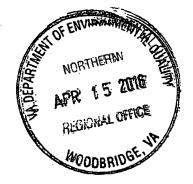
Site: Covanta Fairfax, Inc. (71920) 9898 Furnace Rd, Lorton, VA 22079

General	Permits Emissions Inspections Enforcement Requirements Events Contacts Targeting Data Financials
•	raigothig bata i marciale
Site Emissions	2015 Emission Year Review
Site Information	Final Permit Limits Complete and Current Last Active Permit: 12/11/2006 Last AUR: 01/06/2016 Permit Limits Complete & Current By:
Emission Year Status	Reset Status to Draft JAWILKINSON @ 05/17/2016 12:51 PM Data Entry Completed By: JAWILKINSON
Release Points	@ 05/17/2016 12:52 PM Update Comments
Units	
Processes	Filter:
Emissions Drill Down	Review Flags
Road Map	
Emission Limits Report	No review flags generated or AUR data entry not complete.
Criteria Emissions	© Virginia Department of Environmental Quality 2013-2016
(Pie)	UI: 1.2.23 a4c508978453bfc8d54191a316048849d8e8c8b1
Criteria Emissions (Bar)	API: 1.2.23 60d34ec3d71f8d6f63a8739d7acd5cdaae760628



Covanta Fairfax, Inc.

A Coventa Company 9898 Furnace Rd Lorton, VA 22079 Tel 703 690 6860 Fax 703 690 4223



April 14, 2015

Mr. Justin Wilkinson Virginia Department of Environmental Quality Northern Virginia Regional Office 13901 Crown Court Woodbridge, VA 22193

Reference: 2015 Annual Emissions Statement and Update

Dear Mr. Wilkinson,

Pursuant to the Department's request dated January 6, 2016, required by 9 VAC 5-20-160 and VAC 5-80-340 of DEQ's Regulations for the Control and Abatement of Air Pollution, CFI hereby submits:

- 2015 Emission Statement
- Document Certification
- 2015 Annual Update
- Option I: Emission Factor Method

Please contact me if you have any questions or comments regarding this report.

Sincerely,

Frank Capobianco Facility Manager

SPD/jh

cc: L. Boone (Fairfax County Solid Waste)

D. Shabat (D&B Engineers and Architects, P.C.)

J. Herrmann (CFI)

DOCUMENT CERTIFICATION

Facility Name: Covanta Fairfax, Inc.	
Registration #: 71920	
Facility Location: 9898 Furnace Road, Lorton, VA 22079	
Type of Submittal Attached: 2015 Emission Statement & Update	
Certification: I certify under penalty of law that this document and all attachments we direction or supervision in accordance with a system designed to assure that qualified per and evaluate the information submitted. Based on my inquiry of the person or persons were or those persons directly responsible for gathering and evaluating the information, the into the best of my knowledge and belief, true, accurate, and complete. I am aware the penalties for submitting false information, including the possibility of fine and imperviolations.	ersonnel properly gather who manage the system, aformation submitted is, nat there are significant
Name of Responsible Official (Print): Frank Capobianco	
Title: Facility Manager	

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				Annual Update				2015]	,			
Registration No)	71920			Office:	`	Northern F	Regional Off	ìce	——————————————————————————————————————		·····	
Site Name:		Covanta Fairfax, Inc.			County / C	ity:	Fairfax Cou						•
Physical Locatio		9898 Furnace Rd, Lorto	in, VA 22079		NAICS:		Solid Wast	e Combusto	ors and Incli	nerators 56	2213		
Malling Addres	5:	9898 Furnace Rd			Employees	3	55						
	<u>:</u>	Lorton, VA 22079			Inspector:		Paul Foxwe	ell Phone: ((703) 583-3	824			•
	Report Contact:	Michael Blackweider Pl Email:mblackweider@c	covantaenergy.com		Classificati	on:	Major/Pot	ential Major	7				
Billing Contact;		Michael Blackweider Pl Email:mblackweider@c	hone: (703) 690-6860 covantaenergy.com			•			•	: . `	1		100 E 100 E
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Change Annual Update Report Contact and Billing Contact to: Frank Capobianco. Email: fcapobianco@covanta.com

Based on the data you are reporting, are you aware of any potential air permit violations? If yes, briefly explain:	. 0	Yes @ No	
Document Certification I certify under penalty of law that this document and all attachments were prepared under my direction or supersonnel properly gather and evaluate the information submitted. Based on my inquiry of the person or person gathering and evaluating the information, the information submitted is, to the best of my knowledge and believables for submitting false information, including the possibility of fine and imprisonment for knowing violence of Responsible Official (Print) Title Taciffy Tanager Signature Date Date	ions who manage the system, or those pers lef. true, accurate, and complete. Lam awa	sons directly responsible for	
Must be signed by a Responsible Official as defined in 9 VAC 5-20-230 of the Regulations for the Control and	Abatement of Air Pollution, available at: ht	.tp://www.deq.virginia.gov/	

RELEASE POINT NUMBER: ___Unit 1 Stack

REGISTRATION #: 71920

	AND THE STANDING TO THE STANDI
RELEASE POINT HEIGHT (ft)	288
RELEASE POINT DIAMETER (ft)	7.8
EXIT GAS TEMPERATURE (E F)	235
EXIT GAS VELOCITY (ft per second)	65.90
ELEVATION (ft above sea level)	200
GAS FLOW RATE (cu.ft per minute)	190541

RELEASE POINT NUMBER: Unit 2 Stack

· · · · · · · · · · · · · · · · · · ·	ANNUAL
RELEASE POINT HEIGHT (ft)	288
RELEASE POINT DIAMETER (ft)	7.8
EXIT GAS TEMPERATURE (E F)	267
EXIT GAS VELOCITY (ft per second)	67.41
ELEVATION (ft above sea level)	200
GAS FLOW RATE (cu.ft per minute)	194931

RELEASE POINT NUMBER: Unit 3 Stack

	ANNUALS.
RELEASE POINT HEIGHT (ft)	<u> 288</u>
RELEASE POINT DIAMETER (ft)	
EXIT GAS TEMPERATURE (E F)	269
EXIT GAS VELOCITY (ft per second)	74.92
ELEVATION (ft above sea level)	200
GAS FLOW RATE (cu.ft per minute)	216624

RELEASE POINT NUMBER: Unit 4 Stack

	ANNUAL
RELEASE POINT HEIGHT (ft)	288
RELEASE POINT DIAMETER (ft)	7.8
EXIT GAS TEMPERATURE (E Ft)	257
EXIT GAS VELOCITY (ft per second)	77.35
ELEVATION (ft above sea level)	200
GAS FLOW RATE (cu.ft per minute)	223658

RELEASE POINT NUMBER: __

	ANNUAL
RELEASE POINT HEIGHT (ft)	
RELEASE POINT DIAMETER (ft)	
EXIT GAS TEMPERATURE (E Ft)	
EXIT GAS VELOCITY (ft per second)	
ELEVATION (ft above sea level)	
GAS FLOW RATE (cu.ft per minute)	



2015 EMISSION STATEMENT

Please correct any errors in the information below (cross out & replace)

FACILITY NAME COVANTA FAIRFAX, INC		REGISTRATIO 71920	ON #
LOCATION ADDRESS 9898 Furnace Rd, L	orton, VA 22079	COUNTY/CIT Fairfex Count	
MAILING ADDRESS 9898 Furnace RdLorto	on, VA 22079		
CONTACT PERSON MICHAEL BLACKWELDER Frank Capobianco, Facility Manager	TELEPHONE NUMBER 7036906860 x605	PRIMARY NAICS CODE Solid Waste Combustors and Incinerators	For Agency Use only

FACILITY TOTALS (Sum emissions from attached pages)

INVENTORY YEAR 2015		AF FIN	& OZONES	EASON:
TOTAL VOC EMISSIONS	6.061	TONS/YR	39.901	LES/DAY
TOTAL NOx EMISSIONS	1647.874	TONS/YR	10022.77	LBS/DAY
TOTAL SO ₂ EMISSIONS	121.633	TONS/YR	NA THE	
TOTAL PM 10 EMISSIONS	14.056	TONS/YR	NA NA	
TOTAL PB EMISSIONS	3.8E-02	TONS/YR	NA.	
TOTAL TRS EMISSIONS	NA	TONS/YR	NA.	
TOTAL TNMOC EMISSIONS (landfills only)	NA	TONS/YR	Ne	
TOTAL non-VOC/non-PM HAP EMISSIONS	53.505	TONS/YR	N/A	The second second
TOTAL CO EMISSIONS	21.081	TONS/YR		
TOTAL PM2 5 EMISSIONS	0.155*	TONS/YR		
TOTAL NH3 EMISSIONS	NA	TONS/YR		

PLEASE ATTACH "ANNUAL UPDATE REPORT" FORM.
PLEASE ATTACH "EMISSION STATEMENT CERTIFICATION" with appropriate signature.

^{*}Natural Gas only / AP-42.

REGISTRATION #: 71920

REL. POINT NO.: ___1 UNIT NO.: __1 PROCESS NO.: __1 SCC NO.: 10200601

	ANTRUM	PEAR OXONE SEASON
THRUPUT (with units) Natural Gas U1	23.196 Million Cubic Feet	6.099 Million Cubic Feet
NO, OPERATING DAYS	88 day	g 29 days
NO, OPERATING HOURS PER DAY	NA hour	
DAILY THRUPUT (with units) = Thruput per day	NA.	0.210 Million Cubic Feet per day
VOC EMISSION FACTOR (with units) = EF	5.5 LB/MMSCF	5.5 LB/MMSCF
Emission Factor Control Efficiency basis ²	AP-42 D	AP-42 D
VOC CONTROL DEVICE CODE ²	048, 207	048, 207
Avg. VOC CONTROL EFFICIENCY4 = CE	Estimated 50 %	Estimated 50 %
VÕC EMISSIONS!	0.032 tons voc per y	0.578 Ibs VOC perday
NOX EMISSION FACTOR (with units) = EF	140 LB/MMSCF	140 LB/MMSCF
Emission Factor Control Efficiency basis ²	AP-42 D	AP-42 D
NOx CONTROL DEVICE CODE ³	032, 107	032, 107
Avg. NOx CONTROL EFFICIENCY* = CE	Estimated 50 %	Estimated 50 %
NOX EMISSIEINS	0.812 tons NOx per yi	14.7 Ibs NOx parday.
SO2 EMISSION FACTOR (with units) = EF	0.6 LB/MMSCF	
Emission Factor Control Efficiency basis²	AP-42 D	
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	9,1
SO2 CONTROL DEVICE CODE ³	041, 68, 202	
Avg. SO2 CONTROL EFFICIENCY = CE	91.3* %	23
SO2 EMISSIONS	6.1E-04 tons 502 per ye	
PM10 EMISSION FACTOR (with units) = EF	7.6 LB/MMSCF	
Emission Factor Control Efficiency basis ²	AP-42 D	
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	
PM10 CONTROL DEVICE CODE ³	016	
Avg. PM10 CONTROL EFFICIENCY4 - CE	Estimated 50 %	26
SMEDIAME	0.044 tons PM10 per yr	Reserve these
PB EMISSION FACTOR (with units) = EF	5.0E-04 LB/MMSCF	
Emission Factor Control Efficiency basis ²	AP-42 D	
PB CONTROL DEVICE CODE®	041, 68, 202	
Avg. PS CONTROL EFFICIENCY* = CE	Estimated 50 %	26
PBEMISSIONS	2.9E-06 tons PB per yr	les Réplandos

^{*}Annual Stack Test Removal Efficiency. Emission Factor: LB/MMSCF (10E-06 SCF)

^{1.} AP-42; CEMS; ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)
2. A = Tested (by EPA Reference Method); B = Tested (other); C = Material balance; D = Design; O = Other (describe on separate sheet)
3. See 3-digit control device codes listed in appendix.
4. Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
5. Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100

REL POINT NO .: 1 UNIT NO .: 1 PROCESS NO .: 1 SCC NO .: 10200601 REGISTRATION #: 71920

	ANNUAL	PEAS OZONE SEASON (TINE JUNA AUGUSA
THRUPUT (with units) Natural Gas U1	23.196 Million Cubic Feet	
NO. OPERATING DAYS	88 days	
NO. OPERATING HOURS PER DAY	NA hours	DOM:
DAILY THRUPUT (with units) = Thruput per day	NA	SI ELV
TRS Emission Factor (with units) = EF Emission Factor Control Efficiency source ^T Dasis ²	NA	
TRS CONTROL DEVICE CODE ³		
Avg. TRS CONTROL EFFICIENCY4 = CE	%	3/
TRS EMISSIONS:	tons TRS per yr	ATOMA <u>Loc</u> ly
TNMOC EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency source¹ basis²	NA	
TNMOC CONTROL DEVICE CODE ³		
Avg. TNMOC CONTROL EFFICIENCY* - CE	%	%
TAINO'S ENIES (3/5)	tons TNMOC per yr	Versepan/Art Cit
CO EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency	84.0 LB/MMSCF	
Emission Factor Control Efficiency basis ²	AP-42 D	
CO CONTROL DEVICE CODE ³	033	
Avg. CO CONTROL EFFICIENCY* = CE	Estimated 50 %	33
CO EVIERIONE:	0.487 tons per yr	entrative.
PM 2.5 EMISSION FACTOR (with units) = EF	5.7 LB/MMSCF	
Emission Factor Control Efficiency basis ²	AP-42 D	
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	7
PM 2.5 CONTROL DEVICE CODE ³	016	
Avg. PM 2.5 CONTROL EFFICIENCY* = CE	Estimated 50 %	92
TM2.5 EMISSIONS	0.033 tons per yr	EL STEEL
NH3 EMISSION FACTOR (with units) × EF Emission Factor Control Efficiency	NA	
Emission Factor Control Efficiency basis ²		
NH3 CONTROL DEVICE CODE ³		
Avg. NH3 CONTROL EFFICIENCY - CE	%	
A RELINESTING	tons per ye	Elegan II

AP-42; CEMS; ST = Stack test: F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)

2. A = Tested (by EPA Reference Method); B = Tested (other); C = Material Balance; D = Design; O = Other (describe on separate sheet)

3. See 3-digit control device codes listed in appendix.

4. Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").

5. Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100

REGISTRA	TION # 71920 REL. P	OINT NO.: 1 UNIT NO.	PROCESS NO	2: 1 SCC NO.: 10200601
		ANNUAL		PEAK OXONE BEAGON (LUNE, JULY, AUGUST)
THRUPUT (with units)	Natural Gas U1	23.196 Million C	ubic Feet	
NO. OPERATING DAY		88	days	Joya
NO. OPERATING HO	URS PER DAY	NA	hours	itori
DAILY THRUPUT (with	units) = Thruput per day	NA.		gar-a-V/
HAP EMISSION FACT	OR (with units) = EF	NA		
Emission Factor source ¹	Control Efficiency basis ²		The State of the S	
HAP CONTROL DEVI	CE CODE ³			
Avg. HAP CONTROL I	EFFICIENCY4 = CE		%	26
HAP (7647010) = \(\)\e\(\)\e\(\)\\\\\\\\\\\\\\\\\\\\\\\		tons TNMOC per yr	
HAP EMISSION FACT	OR (with units) = EF	NA		
Emission Factor source ¹	Control Efficiency basis ²			
HAP CONTROL DEVI	CE CODE ³	The second second		
Avg. HAP CONTROL E	EFFICIENCY ⁴ = CE		%	28
TMF (7664393	1EMBSIONS		tona per yr	
HAP EMISSION FACT	OR (with units) = EF			
Emission Factor source ¹	Control Efficiency basis ²			Mark Rod Print
HAP CONTROL DEVIC	CE CODE ³			
Avg. HAP CONTROL E	FFICIENCY* = CE	The District Control	%	<u>*</u>
STAP () EWISSIONS		tons per ye	the partition
HAP EMISSION FACTO	OR (with units) = EF			
Emission Factor source ¹	Control Efficiency basis ²			
HAP CONTROL DEVIC	CE CODE ³			
Avg. HAP CONTROL E	FFICIENCY ⁴ = CE		%	76
the)) EMISSIONS:		tons per yr	Puppely
HAP EMISSION FACTO	OR (with units) = EF Control Efficiency			
source ¹	basis ²			
HAP CONTROL DEVIC				
Avg. HAP CONTROL E			%	93
TEAU (III)	EMISSIONS!		tons per yr	вожну.
HAP Emission Factor (w Emission Factor	thunits) = EF Control Efficiency			
source ^t	basis ²		A CAMPAGA A	
HAP CONTROL DEVICE	ACCOMMON TO A THE REAL PROPERTY OF THE PARTY			
Avg. HAP CONTROL EF	CONTRACTOR DESCRIPTION IN		%	36
) SMBBIONE		tons per yr	by corp.

AP-42; CEMS; ST = Stack lest; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)
A = Tested (by EPA Reference Method); B = Tested (other); C = Meterial Balance; D = Design; O = Other (describe on separate sheet)
See 3-digit control device codes listed in appendix.
Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (1/200-CE)/100

REGISTRATION #: 71920

REL. POINT NO.: ___1 UNIT NO.: ___1 PROCESS NO.: ___3 SCC NO.: 10201201

	ANNL/A	PEAKOZONB BEABON (NUNE JULEY ALIBURT)
THRUPUT (with unite) MSW U1	216049.0 Tons	56207.0 Tons
NO. OPERATING DAYS	326 days	83 days
NO. OPERATING HOURS PER DAY	7389.85 hours	1895.35 hours
DAILY THRUPUT (with units) = Thruput per day	W	677.19 Tons per day
VOC EMISSION FACTOR (with units) = EF	0.427 LB/Hr	0.427 LB/Hr
Emission Factor Control Efficiency basis ²	ST A	ST A
VOC CONTROL DEVICE CODE ³	048, 207	048, 207
Avg. VOC CONTROL EFFICIENCY - CE	EF with Controls %	EF with Controls %
VOC EMISSIGNS	1.58 tons VOC per yr	9.75 bs VOC per day
NOX EMISSION FACTOR (with units) = EF	98.9 LB/HR	98.9 LB/HR
Emission Factor Control Efficiency basis ²	ST A	ST A
NOx CONTROL DEVICE CODE ³	032, 107	032, 107
Avg. NOx CONTROL EFFICIENCY4 = CE	EF with Controls %	EF with Controls %
NOXEMISSIONS 1	365.43 tons NOx per yr	2258.44 Ibs NOx perday
SO2 EMISSION FACTOR (with units) = EF	12.6 LB/HR	
Emission Factor Control Efficiency basis ²	ST A	CONTRACTOR OF THE PARTY OF THE
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	7:
SO2 CONTROL DEVICE CODE ³	041, 068, 202	
Avg. SO2 CONTROL EFFICIENCY* + CE	EF with Controls %	75
SOZIEMISSIONS	46.56 tons \$02 per yr.	Production and
PM10 EMISSION FACTOR (with units) = EF	1.43 LB/HR	
Emission Factor Control Efficiency basis ²	ST A	
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	76
PM10 CONTROL DEVICE CODE ³	016	
Avg. PM10 CONTROL EFFICIENCY* = CE	EF with Controls %	
SMO SHIME ONLY	5.28 tons PM10 per yr	R 290 Maria
PB EMISSION FACTOR (with units) = EF	0.00305 LB/HR	
Emission Factor Control Efficiency basis ²	ST A	
PB CONTROL DEVICE CODE ³	041, 068, 202	
Avg. PB CONTROL EFFICIENCY* = CE	EF with Controls %	26
ER HMISSIOME	0.011 tons PB per yr	وولانتهائه بالمنافعة بالمنافعة بالمنافعة بالمنافعة بالمنافعة بالمنافعة بالمنافعة المنافعة المنافعة المنافعة الم

^{1.} AP-42; CEMS; 3T = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)
2. A = Tested (by EPA Reference Method); B = Tested (other); C = Material balance; D = Design; O = Other (describe on separate sheet)
3. See 3-digit control device codes listed in appendix.
4. Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
5. Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100

REGISTRATION #: 71920 REL. POINT NO .: 1 UNIT NO .: 1 PROCESS NO .: 3 SOC NO .: 10201201

C		Mark A supervision to the property of purposes a supervision of
Page 14 September 2015 Control Control	ARTINAL	
	A STATE OF THE STA	JUNE JULY AUGURO
THRUPUT (with units) MSW U1	216049.0 Tons	
NO. OPERATING DAYS	326 days:	
NO. OPERATING HOURS PER-DAY	7389.85 hours	FARM
DAILY THRUPUT (with units) = Thruput per day	N.C.	
TRS Emission Factor (with units) = EF Emission Factor Control Efficiency	NA NA	
source ¹ basis ²		
TRS CONTROL DEVICE CODE ³		
Avg. TRS CONTROL EFFICIENCY* - CE	%	
TRS EMISSIONS?	tons TRS per yr	
TNMOC EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency source¹ basis²	NA	
TNMOC CONTROL DEVICE CODE ³		
Avg. TNMOC CONTROL EFFICIENCY* - CE	%.	<u>Z</u>
TRIMOR BINISBONS.	tons TNIMOC per yr	
CO EMISSION FACTOR (with units) - EF	1.5 LB/HR	
Emission Factor Control Efficiency basis ²	ST A	
CO CONTROL DEVICE CODE ³	033	
Avg. CO CONTROL EFFICIENCY* = CE	EF with Controls %	26
od avigalova.	5.54 tons per yr	
PM 2.5 EMISSION FACTOR (with units) = EF	NA	
Emission Factor Control Efficiency basis ²	The state of the s	
FUEL PARAMETER (% ash or % sulfur) = FP	%	
PM 2.5 CONTROL DEVICE CODE ³		
Avg. PM 2.5 CONTROL EFFICIENCY* = CE	*	
PM 23 EMISSIONS	tone per yr	A CLUB TO THE PROPERTY OF THE
NH3 EMISSION FACTOR (with units) = EF	NA	
Emission Factor Control Efficiency basis²		
NH3 CONTROL DEVICE CODE®		
Avg. NH3 CONTROL EFFICIENCY* - CE	%	/c
	AND THE RESIDENCE OF THE PARTY	
Main avilles (Mei	ions per yr	Enden,

AP-42; CEMS; ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet, use subject to DEQ approval)

A = Tested (by EPA Reference Method); B = Tested (other); C = Material Balance; D = Design; O = Other (describe on separate sheet).

See 3-digit control device codes listed in appendix.

Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").

Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (1/00-CE)/100

REGISTRATION #: 71920 REL. POINT NO.: 1 UNIT NO.: 1 PROCESS NO.: 3 SCC.NO.: 10201201 216049.0 Tons THRUPUT (with units) U1 MSW 326 NO. OPERATING DAYS 7389.85 NO. OPERATING HOURS PER-DAY DAILY THRUPUT (with units) = Thruput per day 3.67 LB/HR HAP EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency ST 041, 068, 202 HAP CONTROL DEVICE CODES EF with Controls AVG. HAP CONTROL EFFICIENCY" - CE 13.56 tons TNMOC per yr HAP EMISSION FACTOR (with units) = EF
Emission Factor | Control Efficiency <0.0425 Lb/HR ST 041, 068, 202 HAP CONTROL DEVICE CODES EF with Controls Avg. HAP CONTROL EFFICIENCY4 = CE < 0.157 HAP EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency HAP CONTROL DEVICE CODE3. Avg. HAP CONTROL EFFICIENCY . CE HAP EMISSION FACTOR (with units) = EF
Emission Factor | Control Efficiency
basis² | Control Efficiency Emission Factor HAP CONTROL DEVICE CODES Avg. HAP CONTROL EFFICIENCY" = CE HAP EMISSION FACTOR (with units) = EF
Emission Factor | Control Efficiency
snume* | basis² HAP CONTROL DEVICE CODE Avg. HAP CONTROL EFFICIENCY4 - CE HAP Emission Factor (with units) = EF

Emission Factor | Control Efficiency
source¹ | basis² HAP CONTROL DEVICE CODE Avg. HAP CONTROL EFFICIENCY - CE tons per y

Fluoride

AP-42: CEMS; ST = Stack test; F = Federal factor (EPA standard factor); D = Other (describe on separate sheet; use subject to DEQ approval)
A = Tested (by EPA Reference Method); B = Tested (other); C = Material Balance; D = Design; D = Other (describe on separate sheet)
See 3-digit control device codes listed in appendix,
Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/200D) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (1/200D) x (100-CE)/100

REGISTRATION #: 71920

REL. POINT NO .: 2 UNIT NO .: 2 PROCESS NO .: 1 SCC NO .: 10200601

	ANRUAL	PEAK OXONE SEASON
THRUPUT (with units) Natural Gas U2	21.766 Million Cubic Feet	6.895 Million Cubic Feet
NO. OPERATING DAYS	50	
NO. OPERATING HOURS PER DAY	NA hou	NA
DAILY THRUPUT (with units) = Thruput per day	NA NA	1008
		0.493 Million Cubic Feet perday
VOC EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency	5.5 LB/MMSCF AP-42 D	5.5 LB/MMSCF AP-42 D
source ¹ basis ²	048, 207	AP-42 D 048, 207
VOC CONTROL DEVICE CODE ³	Estimated 50	Estimated 50
Avg. VOC CONTROL EFFICIENCY* = CE	0.000	76
AOC ENISSIONS.		
NOx EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency	140 LB/MMSCF AP-42 D	140 LB/MMSCF
source ¹ basis ²	AP-42 D 032, 107	AP-42 D
NOx CONTROL DEVICE CODE ³	Estimated 50	032, 107
Avg. NOx CONTROL EFFICIENCY4 = CE	The second secon	The best with the second of th
NOXEMESIONS	0.762 tons NOx per y	7 34.51 Ibs NOx perday
SO2 EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency	0.6 LB/MMSCF	
source ¹ basis ²	AP-42 D	
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	76
SO2 CONTROL DEVICE CODE ³	041, 68, 202 94.7*	
Avg. SO2 CONTROL EFFICIENCY = CE		26
SOZ EMISSIONS	3.5E-04 tons \$02 per y	1-9302-11-100-
PM10 EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency	7.6 LB/MMSCF	
source basis ²	AP-42 D	
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	Z.
PM10 CONTROL DEVICE CODE ³	016	
Avg. PM10 CONTROL EFFICIENCY* = CE	Estimated 50 %	26
PMF0 EMISSIONS	0.041 tons PM10 per yr	River mayo
PB EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency	5.0E-04 LB/MMSCF	
source ¹ basis ²	AP-42 D	
PB CONTROL DEVICE CODE ³	041, 68, 202	
Avg. PB CONTROL EFFICIENCY* + CE	Estimated 50 %	
PB EMISSIONS?	2.7E-06 tons PB per yr	Bo Rajaraw

^{*}Annual Stack Test REmoval Efficiency. Emission Factor: LB/MMSCF (10E-06 SCF).

^{1.} AP-42: CEMS: ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)
2. A = Tested (by EPA Reference Method); B = Tested (other); C = Material balance; D = Design; O = Other (describe on separate sheet)
3. See 3-digit control device codes listed in appendix.
4. Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
5. Annual Emissions = ANNUAL THRUPUT'X EF'X FP'X (1/2000) X (100-CE)/100; Ozone Emissions = DAILY THRUPUT'X EF'X FP'X (100-CE)/100

REL. POINT NO.: 2 UNIT NO.: 2 PROCESS NO.: 2 SOC NO.: 10200601 REGISTRATION # 71920

	ANNOAL	FEAN OXOME SEASON
A THE STATE OF THE		
THRUPUT (with units) Natural Gas U2	21.766 Million Cubic Feet	
NO. OPERATING DAYS	58 days	
NO. OPERATING HOURS PER DAY	NA hours	
DAILY THRUPUT (with units) = Thruput per day	NA	
TRS Emission Factor (with units) = EF Emission Factor Control Efficiency source ² basis ²	NA -	
TRS CONTROL DEVICE CODE ³		
Avg. TRS CONTROL EFFICIENCY* - CE	%	
TRE ENISSIONS!	tons TRS per yr	TOTAL ESCAY
TNIMOC EMISSION FACTOR (with units) = EF	NA	
Emission Factor Control Efficiency basis²		
TNMOC CONTROL DEVICE CODE ³		
Avg. TNMOC CONTROL EFFICIENCY* - CE	%	
ANOS EMBRIONA.	tons TNMOC per yr	
CO EMISSION FACTOR (with units) - EF	84.0 LB/MMSCF	
Emission Factor Control Efficiency basis ²	AP-42 D	
CO CONTROL DEVICE CODE ³	033	
Avg. CO CONTROL EFFICIENCY* = CE	Estimated 50 %	
CO ENIGRIONS	0.457 tons.per.yr	
PM 2.5 EMISSION FACTOR (with units) = EF	5.7 LB/MMSCF	
Emission Factor Control Efficiency basis ²	AP-42 D	
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	
PM 2.5 CONTROL DEVICE CODE ³	016	2003
Avg. PM 2.5 CONTROL EFFICIENCY* = CE	Estimated 50 %	
5 W 5 2 EVISE (1) MB	0.031 sone per yr	
NH3 EMISSION FACTOR (with units) # EF	NA NA	
Emission Factor Control Efficiency basis ²		
NH3 CONTROL DEVICE CODE ³		
Avg. NH3 CONTROL EFFICIENCY - CE	%	/c
M-B SMESONE	tons peryr	Envariable.

^{1.} AP-42: CEMS: ST = Stack test: F = Federal factor (EPA standard factor); Q = Other (describe on separate sheet; use subject to DEQ approval)
2. A = Tested (by EPA Reference Method); B = Tested (other); C = Material Belance; D = Design; Q = Other (describe on separate sheet)
3. See 3-digit control device codes listed in appendix.
4. Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
5. Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozoné Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100

REGISTRATION #: /1920 REL. PO	INT NO.: 2 UNIT NO.: 2 PROCESS NO.:	1 SCC.NO.: 10200601
	ANINUAL	PEAK OXOMERE (ROM MUMB, JULY AVENET
THRUPUT (with units) Natural Gas U2	21.766 Million Cubic Feet	
NO. OPERATING DAYS	58 days	ly ₂
NO. OPERATING HOURS PER DAY	NA hours	ricen
DAILY THRUPUT (with units) = Thruput per day	MA CONTRACTOR	
HAP EMISSION FACTOR (with units) = EF	NA	
Emission Factor Control Efficiency basis ²		
HAP CONTROL DEVICE CODE ³		
HAP CONTROL DEVICE CODE ³ Avg. HAP CONTROL EFFICIENCY ⁴ = CE	%	
HASK 1647010 1) HAISSKONS	tons TNMOC per yr	
HAP EMISSION FACTOR (with units) = EP	NA	
Emission Factor Control Efficiency basis ²		
HAP CONTROL DEVICE CODE®		
HAP CONTROL DEVICE CODE® Avg. HAP CONTROL EFFICIENCY® = CE	%	- 24
HARY 7664393 NEMISSIONS	lone parye	i analy.
HAP EMISSION FACTOR (with units) = EF	2016年中国中国中国中国中国中国中国中国中国中国中国中国中国中国中国中国中国中国中国	
Emission Factor Control Efficiency basis ²		
HAP CONTROL DEVICE CODE ³	The second secon	
Avg. HAP CONTROL EFFICIENCY" = CE	%	3/5
(AF()EMESIONS	tona per yr	lis par day
HAP EMISSION FACTOR (with units) = EF	The second secon	
Emission Factor Control Efficiency source ¹ basis ²	THE RESERVE TO SERVE THE PARTY OF THE PARTY	
HAP CONTROL DEVICE CODE ⁵		
Avg. HAP CONTROL EFFICIENCY4 = CE	%	
HAP LEMISSIONS	tons per yr	T. J. O.V
HAP EMISSION FACTOR (with units) = EF		
Emission Factor Control Efficiency basis ²		
HAP CONTROL DEVICE CODE ³		
Avg. HAP CONTROL EFFICIENCY* = CE	76	75
- No. (No. 1) = Wiles (No. 1)	tons per ye	and the year
HAP Emission Factor (with units) = EF		
Emission Factor Control Efficiency basis ²		BE BECOME
HAP CONTROL DEVICE CODE [®]		
Avg. HAP CONTROL EFFICIENCY * CE	%	26
Pinci panjagana	tone per yr	

t. AP-42; CEMS: ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)

A = Tested (by EPA Reference Method); B = Tested (other); C = Material Balance; D = Design; O = Other (describe on separate sheet)

See 3-digit control device codes listed in approval

Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").

Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100: Ozone Emissions = DAILY THRUPUT x EF x FP x (1/00-CE)/100:

REGISTRATION #: 71920

REL POINT NO.: 2 UNIT NO.: 2 PROCESS NO.: 3 SCC NO.: 10201201

	ANUAL	PRAMINONE STARON Clung July August,
THRUPUT (with units) MSW U2	237460.0 Tons	60164.0 Tons
NO, OPERATING DAYS	339 days	91 days
NO. OPERATING HOURS PER DAY	7983.75 hours	2159.0 hours
DAILY THRUPUT (with units) = Thruput per day	¥6	661.14 Tons per day
VOC EMISSION FACTOR (with units) - EF	0.293 LB/HR	0.293 LB/HR
Emission Factor Control Efficiency basis ²	ST A	ST A
VOC CONTROL DEVICE CODE ³	048, 207	048, 207
Avg. VOC CONTROL EFFICIENCY4 = CE	EF with Controls %	EF with Controls %
VOC FINISSIONS	1.17 tona VOC per yr	6.95 the VOC perday
NOX EMISSION FACTOR (with units) = EF	109.0 LB/HR	109.0 LB/HR
Emission Factor Control Efficiency basis ²	ST A	ST A
NOx CONTROL DEVICE CODE ³	032, 107	032, 107
Avg. NOx CONTROL EFFICIENCY4 = CE	EF with Controls %	EF with Controls %
Mex EMISSIERIS	435.11 tons NOxper yr	2586.05 lbs NOx per day
SO2 EMISSION FACTOR (with units) = EF	4.0 LB/HR	
Emission Factor Control Efficiency basis ²	ST A	
FUEL PARAMETER (% ash or % sulfur) * FP	NA %	
SO2 CONTROL DEVICE CODE ²	041, 068, 202	
Avg. SO2 CONTROL EFFICIENCY4 = CE	EF with Controls %	26
SON EMPRIONS	15.97 tons SO2 per ye	FSETAN
PM10 EMISSION FACTOR (with units) = EF	0.731 LB/HR	
Emission Factor Control Efficiency basis ²	ST A	
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	<i>y</i> .
PM10 CONTROL DEVICE CODE ³	016	
Avg. PM10 CONTROL EFFICIENCY*-CE	EF with Controls %	
P.O.F.(c) HALLOS (C) (SE	2.92 tone PM10 per yr	R Thursday
PB EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency	0.0032 LB/HR	
source ¹ basis ²	ST A	
PB CONTROL DEVICE CODE ^a	041, 068, 202	
Avg. PB CONTROL EFFICIENCY*+ce	EF with Controls %	26.
PB EMISSIONS	0.013 tons PB per yr	le regernav

<sup>AP-42: CEMS; ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEC approval)
A = Tested (by EPA Reference Method); B = Tested (other); C = Material balance; D = Design; O = Other (describe on separate sheet)
See 3-digit control device codes listed in appendix.
Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100</sup>

REL POINT NO.: 2 UNIT NO.: 2 PROCESS NO.: 3 SOC NO.: 10201201 REGISTRATION #: 71920

	ANNOAL	PEK SKONFSPASION JUNE JUGY AUGUS D
THRUPUT (with units) MSW U2	237460.0 Tons	
NO. OPERATING DAYS	339 days	
NO. OPERATING HOURS PER DAY	7983.75 hours	100
DAJLY THRUPUT (with units) = Thruput per day	N/A	VALUE
TRS Emission Factor (with units) = EF Emission Factor Control Efficiency source ¹ basis ²	NA.	
TRS CONTROL DEVICE CODE ³		
Avg. TRS CONTROL EFFICIENCY4 - CE	%	
PRESEMBERONE!	tons TRS peryr	
TNMOC EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency source¹ basis²	NA NA	
TNMOC CONTROL DEVICE CODE ²		
Avg. TNMOC CONTROL EFFICIENCY4 - CE	%	
THINGS BINESIONS?	tons TNMOC per yr	
CO EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency source* basis²	0.1 LB/HR	
The same of the sa	ST A	
CO CONTROL DEVICE CODE ³ Avg. CO CONTROL EFFICIENCY ⁴ =ce	PP with Controls	
CC = MERIONE:	0.399 tons per yr	
PM 2.5 EMISSION FACTOR (with (mits) = EF	NA	
Emission Factor Control Efficiency source basis ²		
FUEL PARAMETER (% ash or % sulfur) = FP	%	
PM 2.5 CONTROL DEVICE CODE ³		
Avg. PM 2.5 CONTROL EFFICIENCY > CE	%	
TN 25 EMBSIONS	tone per yr	22-27-27
NH3 EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency	NA	
Emission Factor Control Efficiency basis ²	(多)有一种,不是	
NH3 CONTROL DEVICE CODE ³	and the second of the second	
Avg. NH3 CONTROL EFFICIENCY - CE	%	76_
ALM AMERICAS	tone per yr	h, e

^{1.} AP-42: CEMS; ST = Stack test: F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEO approval)
2. A = Tested (by EPA Reference Method); B = Tested (other); C = Material Balance; D = Design; O = Other (describe on separate sheet)
3. See 3-digit control device codes listed in appendix.
4. Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
5. Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100

REGISTRATION #: 71920 REL POINT NO.: 2 UNIT NO.: 2 PROCESS NO.: 3 SCC NO.: 10201201 237460.0 Tons THRUPUT (with units) MSW U2 339 NO. OPERATING DAYS 7983.75 NO. OPERATING HOURS PER-DAY DAILY THRUPUT (with units) = Thruput per day 3.40 LB/HR HAP EMISSION FACTOR (with units) = EF Control Efficiency Emission Factor A ST 041, 068, 202 HAP CONTROL DEVICE CODE³ EF with Controls AVg. HAP CONTROL EFFICIENCY - CE 13.57 tons TNMOC per yr <0.0423 LB/HR HAP EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency ST 041, 068, 202 HAP CONTROL DEVICE CODES EF with Controls AVg. HAP CONTROL EFFICIENCY4 - CE < 0.169 HAP EMISSION FACTOR (with units) = EF
Emission Factor Control Efficiency
basis² HAP CONTROL DEVICE CODE³ AVG. HAP CONTROL EFFICIENCY4 = CE tons per yr HAP EMISSION FACTOR (with units) = EF
Emission Factor Control Efficiency
source¹ basis² HAP CONTROL DEVICE CODES Avg. HAP CONTROL EFFICIENCY* = CE % HAP EMISSION FACTOR (with units) = E mission Factor Control Efficiency HAP CONTROL DEVICE CODES Avg. HAP CONTROL EFFICIENCY - CE HAP Emission Factor (with units) = EF
Emission Factor | Control Efficiency Emission Factor source HAP CONTROL DEVICE CODES Avg. HAP CONTROL EFFICIENCY - CE

AP-42; CEMS; ST = Stack test; F = Federal factor (EPA standard factor); D = Other (describe on separate sheet; use subject to DEQ approval)
A = Tested (by EPA Reference Method); B = Tested (other); C = Material Balance; D = Design; O = Other (describe on separate sheet)
See 3-digit control device codes listed in appendix.
Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100

REGISTRATION #: 71920

REL POINT NO .: 3 UNIT NO .: 3 PROCESS NO .: 1 SOC NO .: 10200601

	ANNUA	PEAK DENGARANGA (Belan Your and B	
THRUPUT (with units) Natural Gas U3	22.823 Million Cubic Feet	6.504 Million Cubic Feet	
NO. OPERATING DAYS	76 days	12 days	
NO. OPERATING HOURS PER DAY	NA hours	NA hours	
DAILY THRUPUT (with units) = Thruput per day		0.542 Million Cubic Feet parday	
VOC EMISSION FACTOR (with units) = EF	5.5 LB/MMSCF	5.5 LB/MMSCF	
Emission Factor Control Efficiency basis ²	AP-42 D	AP-42 D	
VOC CONTROL DEVICE CODE ³	048, 207	048, 207	
Avg. VOC CONTROL EFFICIENCY4 = CE	Estimated 50 %	Estimated 50 %	
AND STUBBLIOUS	0.031 tons voc per yr	1.491 tos VOC per day	
NOX EMISSION FACTOR (with units) = EF	140 LB/MMSCF	140 LB/MMSCF	
Emission Factor Control Efficiency source ¹ basis ²	AP-42 D	AP-42 D	
NOX CONTROL DEVICE CODE ³	032, 107	032, 107	
Avg. NOx CONTROL EFFICIENCY4 = CE	Estimated 50 %	Estimated 50 %	
Non-Mesiens	0.799 tons NOx per yr	37.94 Ibs NOx perdey	
SO2 EMISSION FACTOR (with units) = EF	0.6 LB/MMSCF		
Emission Factor Control Efficiency basis ²	AP-42 D		
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	76	
SO2 CONTROL DEVICE CODE ³	041, 68, 202		
Avg. SO2 CONTROL EFFICIENCY* = CE	80.7* %	25	
SO2 EMISSIONS	1.3E-03 tons \$02 per yr	K. d. k. v. laye	
PM10 EMISSION FACTOR (with units) = EF	7.6 LB/MMSCF		
Emission Factor Control Efficiency basis ²	AP-42 D		
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	7.	
PM10 CONTROL DEVICE CODE ³	016		
Avg. PM10 CONTROL EFFICIENCY* = CE	Estimated 50 %	26	
SYLIO TYRESCINE.	0.043 tone PM10 per yr	R 2797 percen	
PB EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency	5.0E-04 LB/MMSCF		
source basis ²	AP-42 D		
PB CONTROL DEVICE CODE ³	041, 68, 202		
Avg, PB CONTROL EFFICIENCY* - CE	Estimated 50 %	24	
EFB CMISSIONS	5.7E-06 tons PB per yr	100 AS January	

^{*}Annual Stack Test Removal Efficiency.

Emission Factor: LB/MMSCF (10E-06 SCF).

^{1.} AP-42; CEMS; ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)
2. A = Tested (by EPA Reference Method); B = Tested (other); C = Material balance; D = Design; O = Other (describe on separate sheet)
3. See 3-digit control device codes listed in appendix.
4. Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
5. Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100

REGISTRATION #: 71920 REL. POINT NO.: 3 UNIT NO.: 3 PROCESS NO.: 1 SOC NO.: 10200601

	WODAY.	PERSONON STASON JUNE JUNE (JUNE)
THRUPUT (with units) Natural Gas U3	21.766 Million Cubic Feet	
NO. OPERATING DAYS	58 days	
NO. OPERATING HOURS PER DAY	NA hours	Mild
DAILY THRUPUT (with units) = Thruput per day	NA.	naigy.
TRS Emission Factor (with units) = EF Emission Factor Control Efficiency source¹ basis²	NA	
TRS CONTROL DEVICE CODE ³		
Avg. TRS CONTROL EFFICIENCY4 - CE	%	
79S EMISSIONS	tons TRS per yr	
TNMOC EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency source ¹ basis ²	NA NA	
TNMOC CONTROL DEVICE CODE ³		
Avg. TNMOC CONTROL EFFICIENCY* - CE	%	2-
TNINO O ENHARIGNA	tons TNMOC per yr	ET LTA MARQUES AN
CO EMISSION FACTOR (with units) = EF	84.0 LB/MMSCF	
Emission Factor Control Efficiency source basis²	AP-42 D	
CO CONTROL DEVICE CODE ³	033	
Avg. CO CONTROL EFFICIENCY = CE	Estimated 50 %	35
SO ENISHONE	0.457 tone per yr	
PM 2.5 EMISSION FACTOR (with units) = EF	5.7 LB/MMSCF	
Emission Factor Control Efficiency: source ¹ basis ²	AP-42 D	
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	76
PM 2.5 CONTROL DEVICE CODE ³	016	
Avg. PM 2.5 CONTROL EFFICIENCY - CE	Estimated 50 %	
FN 43 BAISSONS	0.062 tons per yr	2. 2. 12
NH3 EMISSION FACTOR (with units) = EF	NA	
Emission Factor Control Efficiency basis ²		
NH3 CONTROL DEVICE CODE ³		
Avg. NH3 CONTROL EFFICIENCY ⁴ - CE	%	26
ALD SWESONS	tons per ye	English to the second

AP-42: CEMS; ST = Stack test: F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)

A = Tested (by EPA Reference Method); B = Tested (other); C = Material Balance; D = Design; O = Other (describe on separate sheet).

See 3-digit control device codes listed in appendix,

Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").

Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100

REGISTRATION #: 71920 REL POINT NO .: 3 UNIT NO .: 3 PROCESS NO .: 1 SCC NO .: 10200601 21.766 Million Cubic Feet THRUPUT (with units) 58 NO. OPERATING DAYS NA NO. OPERATING HOURS PER DAY DAILY THRUPUT (with units) = Thruput per day NA HAP EMISSION FACTOR (with units) = EF Control Efficiency Emission Factor HAP CONTROL DEVICE CODE³ AVG. HAP CONTROL EFFICIENCY" = CE tons TNMOC per yr HAP EMISSION FACTOR (with units) = EF
Emission Factor Control Efficiency
source basis² NA HAP CONTROL DEVICE CODES AVG. HAP CONTROL EFFICIENCY - CE HAP EMISSION FACTOR (with units) = EF Emission Factor HAP CONTROL DEVICE CODE³ AVG. HAP CONTROL EFFICIENCY - CE tons per yr HAP EMISSION FACTOR (with units) = EF
Emission Factor Control Efficiency
basis² Emission Factor HAP CONTROL DEVICE CODES AVO HAP CONTROL EFFICIENCY* = CE HAP EMISSION FACTOR (with units) = 6F
Emission Factor Control Efficiency basis² HAP CONTROL DEVICE CODES Avg. HAP CONTROL EFFICIENCY" = CE HAP Emission Factor (with units) - EF Control Efficiency basis² Emission Factor source HAP CONTROL DEVICE CODE³ AVO, HAP CONTROL EFFICIENCY - CE

Hydrogen

AP-42; CEMS; ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)
A = Tested (by EPA Reference Method); B = Tested (other); C = Material Balance; D = Design; O = Other (describe on separate sheet)
See 3-digit control device codes listed in appendix.
Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100

REGISTRATION #: 71920

REL POINT NO .: 3 UNIT NO .: 3 PROCESS NO .: 3 SCC NO .: 10201201

Providence of the Control of the Con	NOT THE REPORT OF THE PARTY OF	A CONTRACTOR OF THE CONTRACTOR
	ANTNUAL	
THRUPUT (with units) MSW U3	245283.0 Tons	64051.0 Tons
NO. OPERATING DAYS	340 days	87 days:
NO. OPERATING HOURS PER DAY	7959.95 hours	2039.0 hours
DAILY THRUPUT (with units) = Thruput per day	N/A	736.22 Tons perday
VOC EMISSION FACTOR (with units) = EF	0.387 LB/HR	0.387 LB/HR
Emission Factor Control Efficiency basis ²	ST A	ST A
VOC CONTROL DEVICE CODE ³	048, 207	048, 207
Avg. VOC CONTROL EFFICIENCY* = CE	EF with Controls %	EF with Controls %
-VOC EMBSIGNS*	1.54 tons VOC per yr	9.07 lbs VOC perday
NOX EMISSION FACTOR (with units) = EF	106.0 LB/HR	106.0 LB/HR
Emission Factor Control Efficiency basis ²	ST A	ST
NOx CONTROL DEVICE CODE ³	032, 107	032, 107
Avg. NOx CONTROL EFFICIENCY4 = CE	EF with Controls %	EF with Controls %
Mok-Mesions ⁷	421.88 tons NOx per yr	2484.30 lbs NOx per day
SO2 EMISSION FACTOR (with units) = EF	12.1 LB/HR	
Emission Factor Control Efficiency basis ²	ST A	
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	
SO2 CONTROL DEVICE CODE ³	041, 068, 202	
Avg. SO2 CONTROL EFFICIENCY* = CE	EF with Controls %	
SO2 FMSSIONS	48.16 tons SO2 per yr	
PM10 EMISSION FACTOR (with units) = EF	0.512 LB/Hr	
Emission Factor Control Efficiency basis ²	ST A	
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	
PM10 CONTROL DEVICE CODE ³	016	
Avg. PM10 CONTROL EFFICIENCY4 = CE	EF with Controls %	25
PMF01 HMSS(c)visf	2.04 tons Philipper yr	RESTRICTION
PB EMISSION FACTOR (with units) = EF	0.0023 LB/HR	
Emission Factor Control Efficiency basis ²	ST A	
PB CONTROL DEVICE CODE ³	041, 068, 202	
Avg. PB CONTROL EFFICIENCY* + CE	EF with Controls %	22.3
PB HMISS(to)Nis/	0.009 tons PB per yr	lo seguino

^{1.} AP-42; CEMS; ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)
2. A = Tested (by EPA Reference Method); B = Tested (other); C = Material balance; D = Design; O = Other (describe on separate sheet)
3. See 3-digit control device codes listed in appendix.
4. Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
5. Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100

REGISTRATION #: 71920

REL POINT NO .: 3 UNIT NO .: 3 PROCESS NO .: 3 SCC NO .: 10201201

	ANTAIDA .	PRANOMOMERPASON (TINE JOHN ANGLEY)
	FERRICA CONTROL CONTRO	
THRUPUT (with units) MSW U3	245283.0 Tons	
NO. OPERATING DAYS	340 deye	
NO. OPERATING HOURS PER-DAY	7959.95 hours	
DAILY THRUPUT (with units) = Thruput per day	A STATE OF THE STA	
TRS Emission Factor (with units) = EF Emission Factor Control Efficiency source ³ basis ²	NA NA	
TRS CONTROL DEVICE CODE ³		
Avg. TRS CONTROL EFFICIENCY4 = CE	%	
TAS EMISSIONS!	tons TRS per yr	
TNIMOC EMISSION FACTOR (with units) = EF	NA	
Emission Factor Control Efficiency source* basis²		
TNMOC CONTROL DEVICE CODE ³		
Avg. TNMOC CONTROL EFFICIENCY4 - CE	%	%
INDER SUBSIDES.	tons TNMOC peryr	
CO EMISSION FACTOR (with units) = EF	2.4 LB/HR	
Emission Factor Control Efficiency basis ²	ST A	
CO CONTROL DEVICE CODE ³	033	
Avg. CO CONTROL EFFICIENCY = CE	EF with Controls %	33.
SO EMBRIONS	9.55 tons per yr	7. Duyaliy
PM 2.5 EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency	NA	
Emission Factor Control Efficiency basis ²		
FUEL PARAMETER (% ash or % sulfur) = FP	%	%
PM 2.5 CONTROL DEVICE CODE ³		
Avg. PM 2.5 CONTROL EFFICIENCY4 - CE	%	
ISW 350 EWISEICHA.	tons per yr	LE COLD
NH3 EMISSION FACTOR (with units) + EF Emission Factor Control Efficiency source ¹ basis ²	NA NA	
NH3 CONTROL DEVICE CODE ³		
Avg. NH3 CONTROL EFFICIENCY* = CE	*	
M B E MESTONS	tons per yr	7C.
		bendwi I

^{1.} AP-42; CEMS; ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)
2. A = Tested (by EPA Reference Method); B = Tested (other); C = Material Balance; D = Design; O = Other (describe on separate sheet)
3. See 3-digit control device codes listed in appendix.
4. Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
5. Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100

3 REGISTRATION #: 71920 REL. POINT NO .: 3 UNIT NO .: _ PROCESS NO.: 3 SCC.NO.: 10201201 245283.0 Tons THRUPUT (with units) MSW U3 340 NO. OPERATING DAYS 7959,95 NO. OPERATING HOURS PER-DAY DAILY THRUPUT (with units) = Thruput per day 3.07 LB/HR HAP EMISSION FACTOR (with units) = EF Control Efficiency Emission Factor source ST loride 041, 068, 202 HAP CONTROL DEVICE CODE³ EF with Controls AVG. HAP CONTROL EFFICIENCY" = CE 12.22 tons TNMOC per yr <0.0418 LB/HR ST Hydrogen 041, 068, 202 HAP CONTROL DEVICE CODES EF with Controls Avg. HAP CONTROL EFFICIENCY4 - CE < 0.166 HAP EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency HAP CONTROL DEVICE CODE³ AVg. HAP CONTROL EFFICIENCY" = CE tons per yr HAP EMISSION FACTOR (with units) = EF
Emission Factor Control Efficiency
basis² Emission Factor source HAP CONTROL DEVICE CODE Avg. HAP CONTROL EFFICIENCY4 = CE HAP EMISSION FACTOR (with units) = EF
Emission Factor | Control Efficiency
source¹ | basis² HAP CONTROL DEVICE CODE³ Avg. HAP CONTROL EFFICIENCY4 - CE HAP Emission Factor (with units) = EF Emission Factor source¹ Control Efficiency basis² HAP CONTROL DEVICE CODE³ Avg. HAP CONTROL EFFICIENCY - CE

^{1.} AP-42; CEMS; ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)
2. A = Tested (by EPA Reference Method); B = Tested (other); C = Material Balance; D = Design; O = Other (describe on separate sheet)
3. See 3-digit control device codes listed in appendix.
4. Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls")
5. Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (1/2000-CE)/100

REGISTRATION #: 71920

REL POINT NO .: 4 UNIT NO .: 4

PROCESS NO.: 1 SCC NO.: 10200601

	সম্পত্ত	PEAN GRONE SEASON
THRUPUT (with unite) Natural Gas U4	20.041 Million Cubic Feet	6.392 Million Cubic Feet
NO. OPERATING DAYS	328	toys 31 days
NO. OPERATING HOURS PER DAY	NA	ours NA hours
DAILY THRUPUT (with units) = Thruput per day		0.206 Million Cubic Feet perday
VOC EMISSION FACTOR (with units) = EF	5.5 LB/MMSCF	5.5 LB/MMSCF
Emission Factor Control Efficiency basis ²	AP-42 D	AP-42 D
VOC CONTROL DEVICE CODE ³	048, 207	048, 207
Avg. VOC CONTROL EFFICIENCY ⁴ = CE	Estimated 50	% Estimated 50 %
VOE EMISSIONS	0.028 sone VOC po	ryr 0.567 ibs VOC perday
NOX EMISSION FACTOR (with units) = EF	140 LB/MMSCF	140 LB/MMSCF
Emission Factor Control Efficiency source ¹ basis ²	AP-42 D	AP-42 D
NOx CONTROL DEVICE CODE ³	032, 107	032, 107
Avg. NOx CONTROL EFFICIENCY* = CE	Estimated 50	% Estimated 50 %
NOX EMBSJONS	0.701 tons NOx pe	ryr 14.42 ibs NOx perdey
SO2 EMISSION FACTOR (with units) = EF	0.6 LB/MMSCF	
Emission Factor Control Efficiency basis ²	AP-42 D	
FUEL PARAMETER (% ash or % sulfur) = FP	NA	%
SO2 CONTROL DEVICE CODE ³	041, 68, 202	
Avg. SO2 CONTROL EFFICIENCY4 - CE	86.1*	%
SC2 TMSSIONS	8.4E-04 tons \$02 per	1 302 (1 to)
PM10 EMISSION FACTOR (with units) = EF	7.6 LB/MMSCF	
Emission Factor Control Efficiency basis ²	AP-42 D	
FUEL PARAMETER (% ash or % sulfur) ±FP	STATE OF THE PARTY	%
PM10 CONTROL DEVICE CODE ³	016	
Avg. PM10 CONTROL EFFICIENCY4 = CE		%
57/16 =7/162(0)/64	0.038 tone PM10 per	20 15 15 15 15 15 15 15 15 15 15 15 15 15
PB EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency	5.0E-04 LB/MMSCF	
Source ¹ basis ²	AP-42 D	
PB CONTROL DEVICE CODE ³	041, 68, 202	
Avg. PB CONTROL EFFICIENCY* - CE		%
*A PART TO DESCRIPTIONS	2.5E-06 tons PB per	yr by Asponday

^{*}Annual Stack Test Removal Efficiency.

Emission Factor: LB/MMSCF (10E-06SCF).

^{1.} AP-42; CEMS; ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEC approval)
2. A = Tested (by EPA Reference Method); B = Tested (other); C = Material balance; D = Design; O = Other (describe on separate sheet)
3. See 3-digit control device codes listed in appendix.
4. Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
5. Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100

REGISTRATION #_71920

REL POINT NO .: 4 UNIT NO .: 4 PROCESS NO .: 1 SCC NO .: 10200601

	WINKE	PPROMONENTASEN (TMF, July 18, etter)
THRUPUT (Mithunita) Natural Gas U4	20.041 Million Cubic Feet	
NO. OPERATING DAYS	328 days	
NO. OPERATING HOURS PER DAY	NA hours	MEA.
DAILY THRUPUT (with units) = Thruput per day	NA.	ALEX
TRS Emission Factor (with units) = EF	NA	
Emission Factor Control Efficiency basis ²		
TRS CONTROL DEVICE CODE ³		
Avg. TRS CONTROL EFFICIENCY4 = CE	%	
TASIEMESTORS	tions TRS per yr	in de grand
TNMOC EMISSION FACTOR (with units) = EF	NA	
Emission Factor Control Efficiency basis ²		
TNMOC CONTROL DEVICE CODE ³		
Avg. TNMOC CONTROL EFFICIENCY* - CE	%	36
LAWRO EMBRIDAR.	tons TNMOC per ye	IP MASSACTED
CO EMISSION FACTOR (with units) = EF	84.0 LB/MMSCF	
Emission Factor Control Efficiency basis ²	AP-42 D	
CO CONTROL DEVICE CODE®	033	
Avg. CO. CONTROL EFFICIENCY* = CE	Estimated 50 %	× 1
og amgalong.	0.421 tons per ye	
PM 2.5 EMISSION FACTOR (with units) = EF	5.7 LB/MMSCF	
Emission Factor Control Efficiency basis ²	AP-42 D	
FUEL PARAMETER (% ash or % sulfur) = FP	NA %	98
PM 2.5 CONTROL DEVICE CODE ³	016	
Avg. PM 2.5 CONTROL EFFICIENCY - CE	Estimated 50 %	
SV - 9 ayleatona.	0.029 sons paryr	2017-04 AD
NH3 EMISSION FACTOR (with units) + EF Emission Factor Control Efficiency	NA	
source basis ²		
NH3 CONTROL DEVICE CODE ³		
Avg. NH3 CONTROL EFFICIENCY* = CE	4	lo lo
ALIBERTONE	tons per yr	Les du
20 PR 20 20 PR 20 20 20 20 20 20 20 20 20 20 20 20 20		The second secon

^{1.} AP-42; CEMS; ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)
2. A = Tested (by EPA Reference Method); B = Tested (other); C = Material Balance; D = Design; O = Other (describe on separate sheet)
3. See 3-digit control device codes listed in appendix.
4. Note control afficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
5. Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100

REGISTRATION # 71920 REL POINT NO .: 4 UNIT NO .: 4 PROCESS NO .: 1 SCC NO .: 10200601 THRUPUT (with units) Natural Gas U4 20.041 Million Cubic Feet 328 NO. OPERATING DAYS NA NO. OPERATING HOURS PER DAY DAILY THRUPUT (with units) = Thruput per day NA HAP EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency HAP CONTROL DEVICE CODE³ AVO. HAP CONTROL EFFICIENCY - CE tons TNMOC per yr HAP EMISSION FACTOR (with un NA Emission Factor source¹ Control Efficiency HAP CONTROL DEVICE CODE³ Avg. HAP CONTROL EFFICIENCY* - CE HAP EMISSION FACTOR (with units) = EF Control Efficiency Emission Factor HAP CONTROL DEVICE CODE³ Avg. HAP CONTROL EFFICIENCY - CE tons per yr HAP EMISSION FACTOR (with units) = EF
Emission Factor | Control Efficiency
source 7 | basis 2 Emission Factor source³ HAP CONTROL DEVICE CODE Avg. HAP CONTROL EFFICIENCY* = CE HAP EMISSION FACTOR (with units) = EF
Emission Factor | Control Efficiency
source¹ | basis² HAP CONTROL DEVICE CODE³ Avg. HAP CONTROL EFFICIENCY" = CE HAP Emission Factor (with units) = EF Control Efficiency Emission Factor HAP CONTROL DEVICE CODE³ Avg. HAP CONTROL EFFICIENCY . CE

AP-42; CEMS: ST = Stack test: F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)

A = Tested (by EPA Reference Method); B = Tested (other); C = Meterial Balance; D = Design; O = Other (describe on separate sheet)

See 3-digit control device codes listed in appendix.

Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").

Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)/100

REGISTRATION #: 71920

REL. POINT NO.: 4 UNIT NO.: 4 PROCESS NO.: 3 SCC NO.: 10201201

	ANNUA			(NESE/SON
THRUPUT (with units) MSW U4	234236.0 Tons		58611.0 Tons	
NO. OPERATING DAYS	328		Chicago Cara Cara Cara Cara Cara Cara Cara Car	
NO. OPERATING HOURS PER DAY	7542.5	days 5	86	
DAILY THRUPUT (with units) = Thruput per day	- 170	hours	1990.6 hou	
VOC EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency source? basis²	0.438 LB/H ST	A	0.438 ST	LB/HR
VOC CONTROL DEVICE CODE®	048.	A STATE OF THE PART OF THE	The Control of the Co	1 A
Avg. VOC CONTROL EFFICIENCY - CE	EF with Contr			Controls %
WOR TIMESIONS	1.65	tons VOC per yr	10),14 Ibs VOC per day
NOX EMISSION FACTOR (with units) = EF	112.0 LB/I	HR.		0 LB/HR
Emission Factor Control Efficiency basis ²	ST	A	ST	A
NOx CONTROL DEVICE CODE ³	032, 107		032	, 107
Avg. NOx CONTROL EFFICIENCY* = CE	EF with Cont	rols %	EF w	ith Controls %
Now EMERICANO	422.38 tons NOx per yr		2.59	2.41 the NOx per day
SO2 EMISSION FACTOR (with units) = EF	2.9 LB/HF			
Emission Factor Control Efficiency basis ²	ST	A		
FUEL PARAMETER (% ash or % sulfur) + FP	NA	%		
SO2 CONTROL DEVICE CODE ³	041, 068, 2			
Avg. SO2 CONTROL EFFICIENCY4 = CE	EF with Co	ntrols %		73
SOZ FINISSIONS	10.94	tons SO2 per yr		1. 52 . 1. 1.
PM10 EMISSION FACTOR (with units) = EF	0.969 LB/H	IR.		
Emission Factor Control Efficiency basis ²	ST	A		
FUEL PARAMETER (% ash or % sulfur) - FP	ŇA	%		77/2
PM10 CONTROL DEVICE CODE ³	016			
Avg. PM10 CONTROL EFFICIENCY* - CE	EF with Cor	ntrols %		
⊅XF0.⊒MeS(0)/e/	3.65	tona PM10 per yr		Ja Srmaniya
PB EMISSION FACTOR (with units) = EF	0.00144 LI	B/HR		
Emission Factor Control Efficiency basis ²	ST	A		
PB CONTROL DEVICE CODE ³		68, 202		
Avg. PB CONTROL EFFICIENCY4 = CE	EF with Cont	rols %		2.7
PB EMISSIONS	0.005	tons PB per yr		No REJERNAY

<sup>AP-42; CEMS; ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)
A = Tested (by EPA Reference Method); B = Tested (other); C = Material balance; D = Design; O = Other (describe on separate sheet)
See 3-digit control device codes listed in appendix.
Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (1/2000) x (1/2000) Copine Emissions = DAILY THRUPUT x EF x FP x (1/2000) x</sup>

REGISTRATION #: 71920

REL. POINT NO .: 4 UNIT NO .: 4 PROCESS NO .: 3 SCC NO .: 10201201

	ENTRUZI.	PEAN OXONE APASON (TINE AUCY ACEUS O
NOWIN	22/02/5 0 %	
THRUPUT (with units) MSW U4	234236.0 Tons 328	
NO. OPERATING DAYS	7542.55	
NO. OPERATING HOURS PER-BAY	The state of the s	
DAILY THRUPUT (with units) = Thruput per day	NA.	
TRS Emission Factor (with units) = EF Emission Factor Control Efficiency source? basis²	NA	
TRS CONTROL DEVICE CODE ³		
Avg. TRS CONTROL EFFICIENCY - CE	%	
735 EMISSIONS	ions TRS per yr	
TNMOC EMISSION FACTOR (with units) = EF	NA	
Emission Factor Control Efficiency basis ²		
TNMOC CONTROL DEVICE CODE ³		
Avg. TNMOC CONTROL EFFICIENCY* + CE	%	
TAINTO & TAINER CONST.	tons TNMOC peryr	on the saley
CO EMISSION FACTOR (with units) - EF	1.0 LB/HR	
Emission Factor Control Efficiency basis*	ST A	
CO CONTROL DEVICE CODE ⁸	033	
Avg. CO CONTROL EFFICIENCY* = CE	EF with Controls %	<u>*</u>
CONTRACTOR	3.77 tons per yr	0.20
PM 2.5 EMISSION FACTOR (with units) = EF	NA	
Emission Factor Control Efficiency basis ²		
FUEL PARAMETER (% ash or % sulfur) = FP	%	0,
PM 2.5 CONTROL DEVICE CODE ³		
Avg. PM 2.5 CONTROL EFFICIENCY4 - CE	%	
THE TO THESTONE	lone per yr	less age
NH3 EMISSION FACTOR (with units) = EF Emission Factor Control Efficiency	NA NA	
Emission Factor Control Efficiency basis ²		
NH3 CONTROL DEVICE CODE ³		
Avg. NH3 CONTROL EFFICIENCY - ce	%	re_
ALM EMPROPES.	tone per yr	Huma waxii

AP-42; CEMS; ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)

A = Tested (by EPA Reference Method); B = Tested (other); C = Material Balance; D = Design; O = Other (describe on separate sheet)

See 3-digit control device codes listed in appendix.

Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").

Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)100; Ozone Emissions = DAILY THRUPUT x EF x FP x (100-CE)100

REGISTRATION #: 71920 REL POINT NO .: 4 UNIT NO .: 4 PROCESS NO.: 3 SCC NO.: 10201201 234236.0 Tons THRUPUT (with units) MSW U4 328 NO. OPERATING DAYS 7542.55 NO. OPERATING HOURS PER-DAY DAILY THRUPUT (with units) = Thruput per day 3.58 LB/HR HAP EMISSION FACTOR (with units) = EF Control Efficiency Emission Factor ST 041, 068, 202 HAP CONTROL DEVICE CODE³ EF with Controls Avg. HAP CONTROL EFFICIENCY4 = CE 13.50 tons TNMOC per yr <0.0431 LB/HR HAP EMISSION FACTOR (with units) = EF Emission Factor source¹ Control Efficiency ST Hydrogen Fluoride 041, 068, 202 HAP CONTROL DEVICE CODES EF with Controls AVG. HAP CONTROL EFFICIENCY - CE < 0.163 HAP EMISSION FACTOR (with units) = EF Control Efficiency HAP CONTROL DEVICE CODE AVg. HAP CONTROL EFFICIENCY4 = CE HAP EMISSION FACTOR (with units) = EF
Emission Factor | Control Efficiency
basis² HAP CONTROL DEVICE CODE Avg. HAP CONTROL EFFICIENCY - CE HAP EMISSION FACTOR (with units) = EF
Emission Factor Control Efficiency
source¹ basis² HAP CONTROL DEVICE CODE? AVG. HAP CONTROL EFFICIENCY" - CE HAP Emission Factor (with units) = EF Emission Factor source³ Control Efficiency HAP CONTROL DEVICE CODE Avg. HAP CONTROL EFFICIENCY - CE

AP-42; CEMS; ST = Stack test; F = Federal factor (EPA standard factor); O = Other (describe on separate sheet; use subject to DEQ approval)
A = Tested (by EPA Reference Method); B = Tested (other); C = Material Balance; D = Design; O = Other (describe on separate sheet)
See 3-digit control device codes listed in appendix.
Note control efficiency will be zero if there is no control device OR the emission factor accounts for controls (i.e. EF is identified to be "with controls").
Annual Emissions = ANNUAL THRUPUT x EF x FP x (1/2000) x (100-CE)/100; Ozone Emissions = DAILY THRUPUT x EF x FP x (1/2000-CE)/100